

0 20 30 40 50 60 EKALKFMNSSEREDCNNGEPPRKI I PEKNSLRQTYNSCARLCLNQETVCLA
70 80 90 100 110 120 CVAKTKLANGTSSMIVPKQRKLSASYEKEKELCVKYFEQWSESDQVEFVEHL
30 140 150 160 170 180 IGHINSYLKPMLQRDFITALPARGLDHIAENILSYLDAKSLCAAELVCKEWY
00 200 210 220 230 240 KKLIERMVRTDSLWRGLAERRGWGQYLFKNKPPDGNAPPNSFYRALYPKII
50 260 270 280 290 300 WRCGRHSLQRIHCRSETSKGVYCLQYDDQKIVSGLRDNTIKIWDKNTLECK
0 320 330 340 350 360 SVLCLQYDERVIITGSSDSTVRVWDVNTGEMLNTLIHHCEAVLHLRFNNGMM
70 380 390 400 410 420 AVWDMASPTDITLRRVLVGHRAAVNVVDFDDKYIVSASGDRTIKVWNTSTC
30 440 450 460 470 480 HKRGIACLQYRDRLVVSGSSDNTIRLWDIECGACLRVLEGHEELVRCIRFDN
0 500 510 520 530 540 OGKIKVWDLVAALDPRAPAGTLCLRTLVEHSGRVFRLQFDEFQIVSSSHDDT
50 560 PAAQAEPPRSPSRTYTYISR

FIG.3A

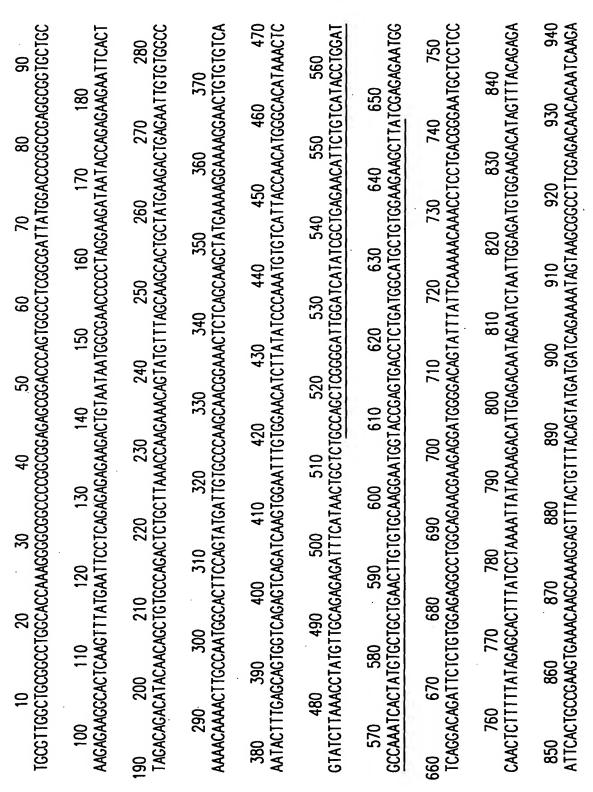


FIG.3B

950 960 970 980 990 1000 1010 1020 1030 TCTGGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1040 1050 1060 1070 1080 1090 1100 1110 1120	30 1140 1150 1160 1170 1180 1190 1200 1210 1220	1230 1240 1250 1260 1270 1280 1290 1300 1310	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410	1420 1430 1440 1450 1460 1470 1480 1490 1500	1510 1520 1530 1540 1550 1560 1570 1580 1590	00 1610 1620 1630 1640 1650 1660 1670 1680 1690
	AGGATCATCGGATTCCACGGTCAGAGGTGTAAATACAGGTGAAATGCTAAACACGTTGATTCACCATTGTGAAGCAGTTCTGCACTTG	CGTTTCAATAATGGCATGATGGTGGCTGCTCCAAAGATCGTTCCATTGCTGTATGGGATATGGCCTCCCCAACTGACATTACCCTCCGGAGGG	TGCTGGTCGGACACCCGAGCTGTCTAGACTTTGATGAGAGTACATTGTTTCTGCATCTGGGGATAGAACTATAAAGGTATGAA	CACAAGTACTTGTGAATTGTAAGGACCTTAAATGGACAAAACGAGGCATTGCCTGTTTGCAGTACAGGGACAGGCTGGTAGTGATGGTGGCTCA	TCTGACAACACTATCAGATTATGGGACATAGAATGTGGTGGTTTACGAGTGTTAGAAGGCCATGAGAATTGGTGCGTTGTATTCGATTTG	ATAACAAGAGGATAGTCAGTGGGGAAAATTAAAGTGTGGGATCTTGTGGCTGCTTTGGACCCCCGTGCTCCTGCAGGGACACT	CTGTCTACGGACCCTTGTGGAGCATTCCGAAGAGTTTTCGACTACAGTTTGAAATTCCAGATTGTCAGTAGTTCACATGATGACACAATC
950	1040	1130 11	1230	1320	1420	1510	1600 16
TCTGGGATAA	AGGATCATCG	CGTTTCAATA	TGCTGGTCG	CACAAGTACT	TCTGACAACA	ATAACAAGAG	CTGTCTACGC

FIG.3C

30 AATAACCA	1880 VATCAAAC	1970 STCTACTC	CTCCTTT	
1780	1870	30	2060	2150
ICCAGATAAA	ACAGTAACAAT	CCAGGACGC	3CTCCTCT	AAAAAA
1770	1860	191	2050	2140 ;
CCTACATC	SAGCAACA	CAGTCGGC	AAACCTCC	
1760 1770	50	1950	2040	21.
CGAACATACACCTACATCTCCAG	ACCAGGATO	TTGGTCTG(	GGAACTTTI	TGTTTTGC
1750	1840 1850 1860	1940	2030	2130
rccctTcTc6,	CGTATCTGCCAATACCAGGATGAGCAACA	GGACACAG	STGAATGATTG	ATATTTAGTGT
1700 1710 1720 1730 1740 1750 1760 1770 1770 1780 CTCATCTGGGACTTCCTAAATGATGATGCTGCCCAAGCTGAACCCCCCTTCTCGAACATACCTACATCTCCAGATAAATAA		1890 1900 1910 1920 1930 1940 1950 1960 1970 ACTGCCCAGTTTCCCTGGACTAGCCGAGGAGGGGGGTTTGAGACTCCTGTTGGGACAGGTTGGTT	ATT(	70 2080 2090 2100 2110 2120 2130 2140 2150 CACCTCTGCACCTAGTTTTGCCAGAAAAAAAAAAAAAAA
)	1830	320	2020	2110
TGAACCC	3TTGCGCTATTTAA	STTTGAGA(	STCTTCTATC	AAAGGTGA(
1730	1820	0	2010	100
TGCCCAAGCT	ACCCATTAAAGT	SAGCAGGG	CAGAAGAT(	TTCCAGAC
1720	1810	1910	2000	0
GATCCAGC	CCAGGACCC	TAGCCGAG	GCTGCTAT	CCCATTGG
1710	10	1900	1990	2090
TCCTAAAT	TACTTGCC	CCCTGGAC	CTGCTTCAGT	AGTTTTTC
1700	790 1800	1890	1980	2080
TCTGGGACT	FACACTGACCTCATA	CCCAGTTT	CACAACTGACT	CTGCACCTA(
CTCAI	1790 TACAC	TACTG	198 AGCAC	2070 CACCTCT

FIG.3D

10 MERKDFETW	) 20 DNISVTFLSL		40 HLISLSGAVQ		60 LKRDFLKLL
70 PLELSFYLLE	) 80 KWLDPQTLLTC		100 ISACTEVWQT		
130 KVYLKAILR	) 140 KQLEDHEAFE		160 VYALYYKDGL		180 LWDVSTGQC
190 VYG IQTHTC	) 200 AAVKFDEQKLV			230 HFRGHTGAVFS	
250 LVSGSADFT	) 260 KVWALSAGTCI		280 VTKVVLQKCK		300 ILLSADKYE
310 IKIWPIGRE	320 NCKCLKTLSV		340 RLHFDGKYIV		
370 IKTPE I ANLA	) 380 ALLGFGDIFALI	390 FDNRYLYIML		410 WPLPEYRESKR	420 GSSFLAGEH

PG

FIG.4A

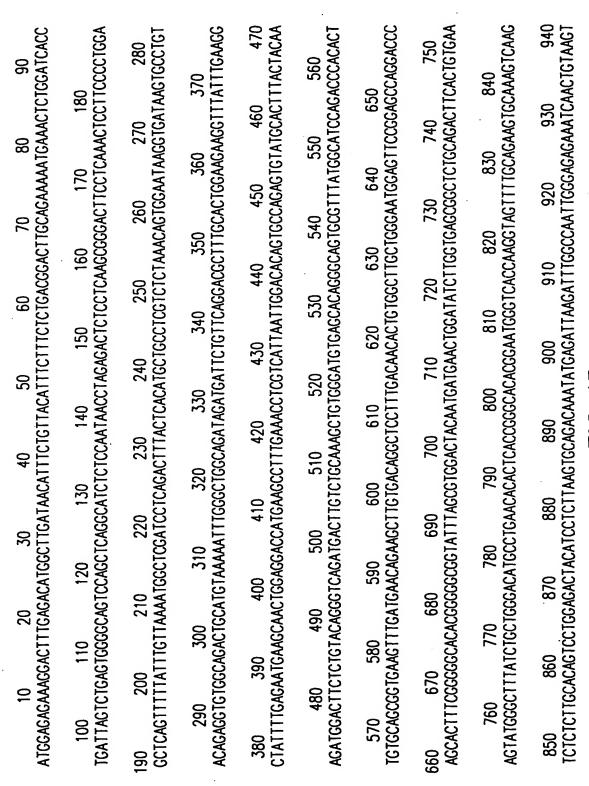


FIG.4B

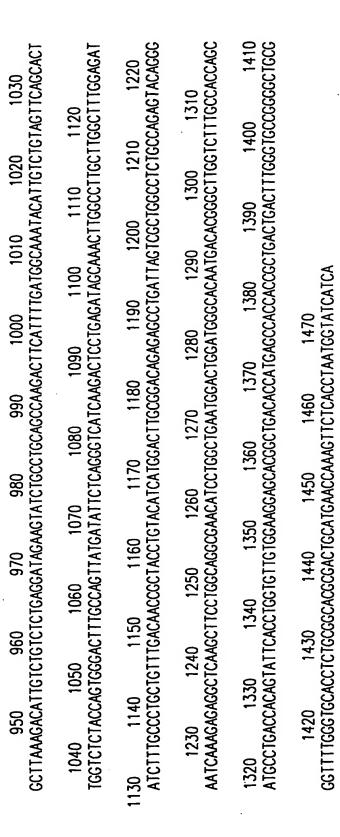


FIG.4C

10 MKRGGRDSDRN			50 DIILQVFKYL	60 PLLDRAHAS
70 QVCRNWNQVFH	80 IMPDLWRCFEF		110 IIKRHSNHLQ	120 YVSFKVDSS
130 KESAEAACDIL		150 LGLISTARPS	170 SALTVVFVNS	- <del>-</del>
190 DTPVDDPSLKV		210 LLKWSSCPHV		240 NYHLLSDEL
250 LLALSSEKHVR		270 Enpgqthfht	 290 RHSPKVNLVM	• • •
310 DPFFRYEIPAT		330 DVLGRVGMTC		
370 LSAIGLGECEV		390 MCGGRLSQLS	410 KYSLEQIHWE	420 VSKHLGRVW
FPDMMPTW.				

FIG.5A

10 20 30 40 50 60 70 80 90 CGGGGTGGTGTGGGGGGAAGCCCCCCCCCCCCCCGGAGGAGGAGGAGGAGG	100 110 120 130 140 150 160 170 180 GAAATCCAAGAAACTGAGACTACAAATGAGCATTCTGAGATTGGGGTAATCTCCTTCAGGACATTATTCTCCAAGTATTAAATAT	190 200 210 220 230 240 250 260 270 280 TTGCCTCTTCTTGACCGGGCTCATGCTTGAAGTTTGCCGCAACTGGAACTATTTCACATGCCTGACTTGTGGAGATGTTTTGAATTTG	290 300 310 320 330 340 350 360 370 ACTGAATCAGCCAGCTACTATTGAAACCTACCATCTACATTTGAAACCTACCATCTACAATTTTGAAACCTACCATCTACAACAGATTATTAAAAGACATTCAAACCATCTACAATATTT	380 390 400 410 420 430 440 450 450 470 CAGCTICAAGGGGGGGGAATGGGAATGGCTGTTAAAAACACTTGGACTT	480 490 500 510 520 530 540 550 560 ATTICAACTGCTGGACGAGGTTGTGTTCGTAAACTCCAAATCCCTGTTT	570 580 590 600 610 620 630 640 650 CCCTTAAGATAGAGATACTCCAGTAGATGATCATCTCTAAGATGAGCAG	660 670 680 690 700 710 720 730 740 750 CIGICCICATGICICICCAGCAGGIAICCITIGIGIGGCIGATCAGTGCCCTTAAGAGAACTAGCCCTGAACTACCACTTAITGAGIGAT	760 770 780 790 800 810 820 830 840 GACTICITACTICCATICITACAAAAAAAAAAAAAAAAAA	850 860 870 880 890 900 910 920 930 940 AIACIAITCAGAAGAGTGGATGCTITCACAAGAGAAGAAGAAGAATTIGA
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FIG.58

1030	GACATGCCCT	20 TTGTCAGCTA	1220	TATGGAAGA	1310 CATGATGCCC
990 1000 1010 1020 1030	CCCCTICTTICCTATGAAATACCTGCCACCCATCTGTACTTIGGGAGATCAGTAAGCAAAGATGTGCTTGGCGGTGTGGGAAATGACATGCCCT	1040 1050 1060 1070 1080 1090 1100 1110 1120 AGACTGGTTGAACTAGTGTGTGCAAATGGATTACGGCCACTTGATGAAGTTTGCATTGCAGAACGTTGCAAAAATTTGTCAGATA	1130 1140 1150 1160 1170 1180 1190 1200 1210 1220	TIGGACTAGGGGAATGTGAAGTCTCATGTAGTGCCTTTGTTGAGATGTGTGTG	1230 1240 1250 1260 1270 1280 1290 1300 1310 AGTACTAATTCCTGACCAAAAGTATAGTTTGGAGCAGATTCACTGGGAAGTGTCCCAAGCATCTTGGTAGGTGTCCCGACATGATGCCC
1010	SAIGIECI IGE	1100 SCATTGCAGAAC	1200	TGCCCCCTATO	1290 CTTGGTAGGGT(
1000	CAGIAAGCAAA	1090 AGAGTTAATTCI	1190	AAGA TG TG TGG	1280 TGTCCAAGCAT
086	ICH HGGGAGAH	1080 CCACTTGATGA	170 11	3TIGAGTTIGTG	1270 ITCACTGGGAAG
36 0/6	:ACCCATCTGTA	1070 VATGGATTACGO	1160	3TAG1GCC1110	1260 17TGGAGCAGA1
086 076 098	SAAATACCIGC	1060 Tagtgtgtgca/	1150	TGAAGTCTCAT	40 1250 CAAAAGTATAG
950		0 1050 GCTTCAACTAG	1140	CTAGGGGAATG	230 12 TAATTCCTGAO
		104 AGACT	1130	TICCA	1 AGTAC

FIG.5C

	10	20	30	40	50	60
MKRNSL	SVENKIVQLS	GAAKQPKVGF	YSSLNQTHTH	TVLLDWGSLP	HHVVLQIFQY	LPLL
	70	80	90	100	110	120
DRACAS	SVCRRWNEVF	HISDLWRKFE	FELNQSATSS	FKSTHPDLIQ	QIIKKHFAHL	QYVS
FKVDSS	130 SAESAEAACDI	140 LSQLVNCSIQ	150 TLGLISTAKP	160 SFMNVSESHF	170 VSALTVVF IN	180 SKSL
SSIKIE	190 DTPVDDPSLK	200 ILVANNSDTL	210 RLPKMSSCPH	220 VSSDGILCVA	230 DRCQGLRELA	240 LNYY
ILTDEL	250 FLALSSETHV	260 NLEHLRIDVV	270 SENPGQIKFH	280 AVKKHSWDAL	290 IKHSPRVNVV	300 MHFF
LYEEEF	310 ETFFKEETPV	320 THLYFGRSVS	330 KVVLGRVGLN	340 CPRL IELVVC	350 ANDLQPLDNE	360 LICI
	370	380	390	400	410	420
AEHCTN	ILTALGLSKCE	VSCSAF IRFV	RLCERRLTQL	SVMEEVLIPD	EDYSLDE IHT	EVSK
YLGRW	430 FPDVMPLW					

FIG.6A

ACATTT	10	20	30	40 GTTTATCTGT	50	60	CTICICA
ACATITI	CIAAIGIII	ACAGAA IGA	AGAGGAACA		IGAGAATAA	WIIGICCA	JIIGICA
70	08			110 CTTCTCTCAA			CTTCTT
GGAGCAG	CUAAACAGC	CAAAAGTIG	GGIICIACI	CITCICICAA	CCAGACTCAT	ACACACACI	ווטווטנ
140				180 TACAAATTTT		200	
CTAGACT	GGGGGAG I I	IGCC ICACC	AIGIAGIAI	IACAAATITI	ICAGIAICI	ICCTTIACT	AGATOGG
210				250			_
6001616	CAICIICIG	IAIG IAGGA	GGTGGAATG	AAGTTTTCA	HALLICIGAC	CITIGGAGA	MAGIII
				320		-	40
GAATTIG	SAAC I GAACC	AG I CAGCIA	CHICAICH	TTAAGTCCAC	ICAICCIGA	ICICALICA	SCAGATC
350		370		0 39			
ATTAAAA	AGCATTTIG	CICAICIIC	AGTATGTCA	GCTTTAAGGT	TGACAG TAGO	CCTGAGTC	AGCAGAA
420				50 4			
GCTGCCT	GTGATATAC	TCTCTCAGC	TGGTAAATT	GTTCCATCCA	GACCTIGGGG	CHIGATTIC	AACAGCC
490				520			
AAGCCAA	GTTTCATGA	AIGIGICGG	AGICICALI	TTGTGTCAGC	ACTIACAGT	IGITITIAN	JAACTCA
56				590			
AAATCAT	TATCATCAA	TCAAAATTG	AAGATACAC	CAGTGGATGA	ICCTICATIO	SAAGATICI	IG IGGCC
				660			
AATAATA	GTGACACTC	TAAGACTCC	CAAAGATGA	GTAGCTGTCC	CICATGTTICA	AICIGAIGG	AATICTI
	700			730			
TGTGTAG	CTGACCGTT	GTCAAGGCC	TTAGAGAAC	TGGCGTTGAA	TTATTACATO	CTAACIGA	IGAACTI
760	770	780	790	800	810	820	
TICCTIG	CACTCTCAA	GCGAGACTC	ATGTTAACC	TTGAACATCT	ICGAATIGAT	GTIGTGAG	IGAAAA I
830	840	850	860	870	880	890	
CCTGGAC	AGATTAAAT	TICATGCTG	TTAAAAAAC	ACAGTTGGGA	IGCACTTAT1	IAAACATIC	LCCTAGA
900	910	920	930		950	96	_
GTTAATG	STIGITATEC	ACTTCTTTC	TATATGAAG	AGGAATTCGA	GACGTTCTT(	CAAAGAAGA	AACCCCT

FIG.6B

970	980	990	1000	1010	1020	1030
GTTACTCACC	TTTATTTTGG	TCGTTCAGT	CAGCAAAGTG	GTTTTAGGAC	GGGTAGGTCT	CAACTGTCCT
1040	1050	1060	1070	1080	1090	1100
CGACTGATTG	AGTTAGTGGT	GTGTGCTAA	TGATCTTCAG	CCTCTTGATA	ATGAACTTAT	TTGTATTGCT
1110	1120	1130	1140	1150	1160	1170
GAACACTGTA	CAAACCTAAC	AGCCTTGGG	CCTCAGCAAA	.tgtgaagtta	GCTGCAGTGC	CTTCATCAGG
1180	1190	1200	1210	1220	1230	1240
TTTGTAAGAC	TGTGTGAGAG	AAGGTTAAC	ACAGCTCTCT	GTAATGGAGG	AAGTTTTGATO	CCCTGATGAG
1250	1260	1270	1280	1290	1300	1310
GATTATAGCC	TAGATGAAAT	TCACACTGA	AGTCTCCAAA	TACCTGGGAA	GAGTATGGTT(	CCCTGATGTG
1230 ATGCCTCTCT	GG					

FIG.6C

10	20	30	40	50	60
MAGSEPRSG	NSPPPPFSDW	GRLEAAILSGV	VKTFWQSVSKD	RVARTTSREE	VDEAASTLT
70	08 (	90	100	110	120
RLPIDVOLY	LSFLSPHDLC	QLGSTNHYWNE	TVRNPILWRY	FLLRDLPSWS	SVDWKSLPY
130 LQILKKPISE		150 IAVYLMCCPYTF		170 GAVTSFLHSL	180 I IPNEPRFA
190 LFGPRLEQLI	- <del>-</del>	210 EELCPTAGLPO	220 QRQIDGIGSGV	230 NFQLNNQHKF	240 NILILYSTT
250 RKERDRAREE		270 RHNEGDDRPGS	280 SRYSVIPQIQK	290 KLCEVVDGF I Y	300 VANAEAHKR
310 HEWQDEFSH		330 SGRPLLVLSCI	340 SQGDVKRMPC	350 FYLAHELHLN	360 LLNHPWLVQ
370	380	390	400	410	420
DTEAETLTG	LNGIEWILEE	VESKRAR*FSF	QILGTETI*N	ILLLRS+CEYL	LSQPTLSCL
430 FADRLSFGQI		450 FLP+[NYKKR\		470 NL*TFFW*FLY	480 FLSF+KY+I
L .		<b>-</b> 1	0.74		

FIG.7A

ATGGCGC	10 GGAAGCGAGC	20 CGCGCAGCGG		40 CCGCCGCCGCC	50 CCTTCAGCGAC	60 TGGGGCCGCCTG
70 GAGGCGC	80 SCCATCCTCA(	90 GCGGCTGGAA(	100 GACCTTCTGG(		120 SCAAGGATAGG	130 GTGGCGCGTACG
140 ACCTCCC			170 GGCCAGCACCO		190 GCCGATTGAT	200 GTACAGCTATAT
210 ATTTIGI	220 CCTTTCTTT	230 CACCTCATGA	240 ICTGTGTCAG	250 ITGGGAAGTAC	260 CAAATCATTAT	270 TGGAATGAAACT
280 GTAAGAA				320 AGGGATCTTCC		340 TCTGTTGACTGG
350 AAGTCTO	360 CTTCCATATC		380 AAAAAAGCCT/			410 GCATTTTTTGAC
420 TACATGO					470 CAAAATCCAGC	480 CGTCCTATGTAT
490 GGAGCTO						550 CTGTTTGGACCA
56 CGTTTGG					0 61 CAGAGGAACTT	0 620 TGCCCAACAGCT
_			. • -			80 690 AACCAACATAAA
TTCAACA	700 ATTCTAATCTI		. — -	730 Saaagagatag	-	750 GAGCATACAAGT
760 GCAGTTA	770 ACAAGATGT1		.790 Caatgaaggto			820 TACAGTGTGATT
830 CCACAGA	840 ATTCAAAAAC			870 ITCATCTATG1		890 GAAGCTCATAAA
900 AGACATO	910 GAATGGCAAG/	920 ATGAATTTTC	930 CATATTATGO	940 GCAATGACAGA	950 TCCAGCCTTT	960 GGGTCTTCGGGA

FIG.7B

970 AGACCATTGT	980 TIGGTTTTATO			1010 GTAAAAAGAA	1020 TGCCCTGTTT	1030 TTATTTGGCT
1040 CATGAGCTGO	1050 CATCTGAATCT		1070 CCATGGCTG		1090 CAGAGGCTGA	1100 AACŢCTGACT
1110 GGTTTTTTGA	1120 NATGGCATTGA			1150 GAATCTAAGC	1160 GTGCAAGATG	1170 ATTCTCTTTT
1180 CAGATCTTGG	1190 GAACTGAAAC			1220 AGGTCGTGAT	1230 GTGAATATTTO	1240 GCTCAGTCAG
1250 CCCACCTTGT	1260 CCTGCCTTTT	1270 TGCAGATAGO			1300 AACTGCTGTG	1310 TTTTTTATAT
1320 TATTTTTACT				) 1360 GTTTCAGTCC	1370 TAGTATTTAG	1380 CCCCAAAATG
1390 AACCTTTAAA			) 142 ATATTTTCTC		0 144 AATATTAAAT	_

FIG.7C

10 MSRRPCSCALRI	20 PPRCSCSASPSA			60 NHVHSGL
	80 VSYTPAYLEGSO			
	140 EIEALETSRLYE			
190 QSPDQYPNKNLI	200 LPVLHFEKVVCS			
	260 RRGLRHVLATIL			
	320 HASTREYVMFRT			
370 EFSEVAKTLKKI	380 NESLKACIRCNS			
	440 GPLPGTKKSKKN	ILRRL		

FIG.8A

ള	ខ	ΤĀ	Ξ	8 S	≨	₹	_ \S	AT	940 CAG
_80	<u> </u>	82	gy	ACT	o ye	₹	750 TAG	ACT	<sub>ම</sub> දු
90 (1)	2	) II	370 CCTA	2	560 3AGG/	19	111	840 ACCA	CAT
ğ	180 AAG	)TA(	55	_ §	35	650 :ATT	₹	œ ¥	Š
Ş	CA 1	270 AAGA(	GA C	46( AT/	25	25	<u> </u>	213	930 16660
8 25	₹	75 AS	_ [5	₹.	550 TAGC	ဠ	740 AGAGG	(ATC	Ι¥
CIG	o.₹	116	360 XAT1	W.	£ 61⁄	Q [S	ည္တ	830 ACAC/	/21/
8	170 TCTA	₽ V	Ş	55 A	AAG	640 GCCAG	ATA	2	920 3AAG4
<u> </u>	AGT	260 3ATG/	210	4 ACT	O	55	730 AATTA	86	AG 9
2000	GAT	913	350 ATTGG	AAT	540 ATGA/	113	₹	820 AAGGG	55
SAG	160 CCTCGG	<b>₩</b>	3 TAT	0	AAC	630 \AAAC	AAG	& &	O GAT
CAI	8	250 3CTAA	ATG	A 44	010	₹	720 TGC:TG	21	910 GAAGA
සු	89	2 166	000	CAG	530 CTCAC	₹	7 ATG	0 ICI	8€
201	150 CGCCT(	AAC	340 GCTGT	₹	ဋ္ဌ	620 TATCC	GAG	810 AACTC	116
210	<del>-</del> .09	0 11A	AG	430 616	616	6 ATA	-8	$\mathbf{g}$	900 CAACI
25 25 26 26	99	240 GACT	₹2	CAŢ	520 ACAAA	્કુ	710 TAGATCG	₹2	SS
CAC	_ 8	8	330 ACTAT	. Š	5 TAC	o VS	GTA	800 ATTCT	GAG
<b>Q</b>	140 5000	ATT	AG A	20 AAT	CIC	610 CCCAG	₩	ATA	890 VAAGT
မ္မ	Ş.	230 3TTC/	¥	SAA 4	0	AG	700 TCCTA	146	8 ₹
40 TCAGC	313	ATG.	320 ICCAT	<b>₽</b>	510 CATTI	Ş	AAT	790 \TGTG	CTC
Ş	130 AGCGCAG	ည္ဆ	3	AG O	23	600 WAT	ક્ર	7 AAT	0 .TGT
2	\$	220 [TGTA	AGA.	CAT A	ATT	Ş	690 CAAAA	<b>T</b>	880 CAAT(
೫ಟ	윉	2 ATT	ુ≨	110	500 5007/	201	్త స్ట	္မွ	AAT
361	120 3CAGG	II.	310 CTGT#	ည်	310	590 GCC T	₩	780 VTGGGC	CTT
\$	ဆိုင္တ	ATT	2	<b>\$</b> \$	<b>₽</b>	5 CTG	AG O	₹	870 766A(
88	<u>Ş</u>	210 3TGA	ဋ္ဌ	` 2	490 IGAAG	ATC	680 AAAA	₹	CA
``8	<u></u> 22	<b>\$</b> C1	888	₹	ATG	్టర్త	TI.	770 36CAG	. Y
<u> </u>	110 TCCTG	<u>₹</u>	212	Ç Ç	Ē	580 TCTAC	Ş	120	860 TCAG
ွဋ္ဌ	<u>છ</u>	200 AAA	AT.	£, ₹	Sk	98	670 TTCA	₹	ACT B
10 20 30 40 50 60 70 80 90 AGETTECTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	100 110 120 130 140 150 160 170 180 CCACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	90 200 210 220 230 240 250 260 270 280 TTTCTGTCAAAATGAAGTGTGTTTAATTGTAACCAGTTCCGGACTTAAACTGGTAAAACCTGATGGAAGAGTAGTTTCCTA	290 300 310 320 330 340 350 360 370 CACCCCTGCATATCTGGAAGGTTCCTGTAAAGAGTATGAAAGGCTGTCATGTATTGGCTCACCGATTGTGAGCCCTAGGATT	380 390 400 410 420 430 440 450 460 470 GTACAACTTGAAAGGAAAGGGATAACAAGGAAAATCAACATGTGCAACAGACACTTAATAGTACAAATGAAATAGAAGCACTAG	480 490 500 510 520 530 540 550 560 AGACCAGTAGACTTTATGAAGAGGGGCTATTCCTCTACAAAGTGGCCTCAGTGAACATGAAGAAGGTAGCCTCCTGGAGGAAA	570 580 590 600 610 620 630 640 650 TTTCGGTGACACTCTACAAATACAAAGCCCAGACCAATATCCCAACAAAAACTTGCTGCCAGTTCTTCATTTTGAAAA	560 670 680 690 700 710 720 730 740 750 GIGGITTGTTCAACATTAAAAAAAAAAAAAAAAAAAAAAA	760 770 780 790 800 810 820 830 840 TGCAGAATGTGTAGATATTCTCAGCCACTTCGAAGGGCACTCAGAAAATGGCCCTAGAATGTGTAGATATTCTCAGCCAACTTTCGAAGGGCACTCAGAAAATGGCCTTAGCAACTAT	850 860 870 880 890 900 910 920 930 940 TTTAGCACAACTCAGTGACATAATCAATGTGTCTAAAGTGAGCACAACTTGGAAGAAGATCCTAGAAGATGATAAGGGGGCATTCCAG
16	53	.16	ZZ ZZ	, X	ζ¥	570	311	₹ VGA	O AGC
[29]	Ž	190 TTT	) Y	×, ¥, ₹	CAC	ΞĔ	660 CTC	22	850 TTTA(
_	_	≥,		_	-	•	<b>3</b>	•	•

FIG. 8B

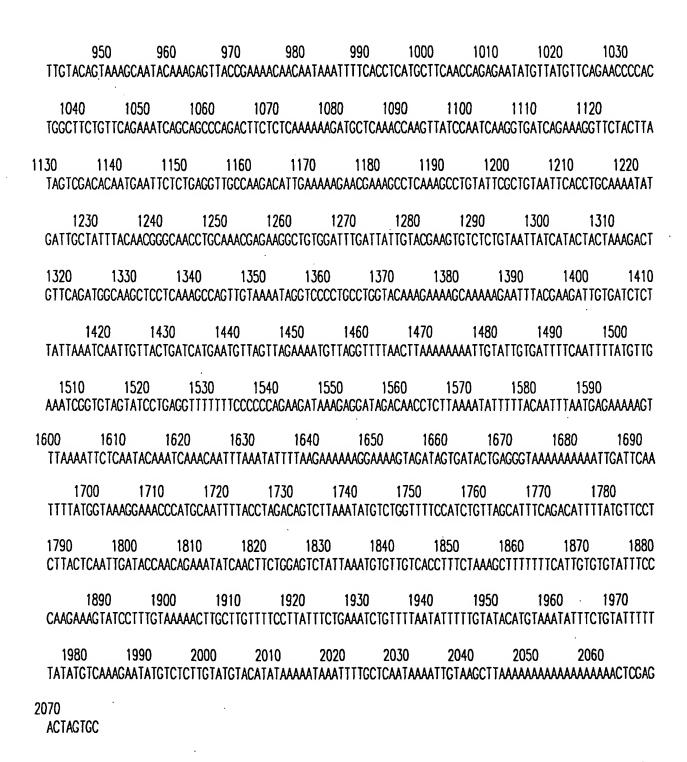


FIG.8C

ARSGAS	10 ALRRRRVQVW	20 VLSRPPPGGG	30 SDSFRTRRPQR	40 GPGPGGSQAN	50 IDAPHSKAALD	60 SINE
LPDNIL	70 LELFTHVPAR	80 QLLLNCRLVO	90 SLWRDLIDLL		110 GFITKDWDQP	120 VADW
KIFYFL	130 RSLHRNLLRN	_	150 /QIDFNGGDRW		170 TEFPDPKVKK	180 SFVT
SYELCL	190 KWELVDLLAD		210 RPDIVVKDWF		230 QLKVQLASAD	240 YFVL
ASFEPP	250 PVTIQQWNNA		270 SDYPRGVRYIL		290 WAGWYGPRVTI	. 300 NSS I
VVSPKM	310 TRNQASSEAQ		330 AQSPYGAVVQ	IF		

FIG.9A

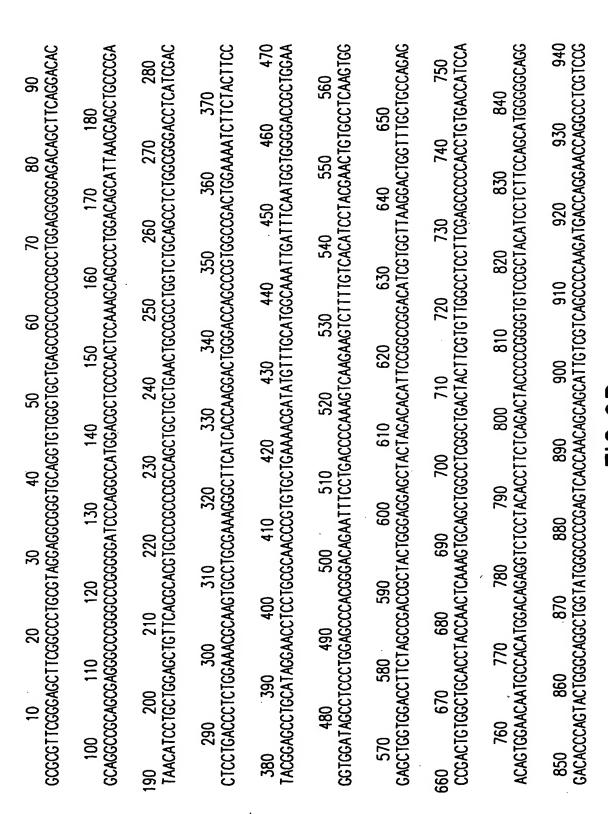


FIG.9B

(2)	<b>⋖</b>	(2	⋖	O ()	⋖	
161	200	1220 TCCCA	ACA CA	141 TTG	_ AAT	
1030 ATCC1	AAC	12 ATC	0 AAT	AGC	1500 AAAA/	
CCA 1	1120 GGTTC	GTA	1310 FAAAA	SCAG	T M	
761	= 8	o ည	- IACI	1400 AAGGC	ATA/	
1020 3ACAGC	) ))	-1210 CACCC	O CTC	993	1490 ATAA	
16AC	1110 CTCCT(	501	1300 TGTCT	AÇ Ç	TA	
TTC	11 ACT	O CTG	22	1390 GTGA	\TAA	
950 960 970 980 990 1000 1010 1020 1030 AGCCTCAGCCTGCCCTACGAGCTGTTGTCCAGATTTTCTGACAGCTGTCCAGTGTGTGT	1040 1050 1060 1070 1080 1090 1100 1110 1120 TCTGGGTGGGTGGGTGCGTGTGCTGTACCAGGGACTCCTGCCCGGTTCAACCCTA	30 1140 1150 1160 1170 1180 1190 1200 1210 1220 CCAGCTTGTGGTAACTTACTGTCACATAGCTCTGACGTTTTGTTGTAAAAAGTTTTTCAGGCCGGGCACTGTGGCTCACGCCTGTAATCCCAG	1230 1240 1250 1260 1270 1280 1290 1300 1310 CACTTTGGGAGCCGAGGTGGATCACGAGGGTCAGAGACCATCCTGGCCAACACGGTGAAAACCTGTCTACTAAAAATACAA	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 AAAATTAGCCGCGCGCGCGCGCCCTGTAGTCCCAGCTACTCGGAGGCTGATGCCGTGAACCCGGAAGGCAGGC	1420 1430 1440 1450 1460 1470 1480 1490 1500 AGTGAGCGAGACTCTGGCTCATAAAAAAAAAAAAAAAAA	
CAC	00	999	1290 GCTGA	AAT(	ATA/	
161	1100 TGTACC	) )	CAC	1380 CAAGA	AA	
1000 GCTGT1	222	1190 CAGG(	CAA	CAG -	1470 GCTCAT	
10 3AGC	00 100 100		1280 :TGGCC	SATO	36C1	
ACC	1090 GTGAGG	o ATG	22	1370 GGCTG	TCT	•
990	CCA	1180 ATAAA]	CCA	CAG	1460 CAGAC	
6 ၁၁	8 166	TA.	1270 ICACAC	99	± 55 4	
CAAJ	1080 3666T(	3110	ACAC	1360 CTAC1	AGAC	
980 TGCC(	CAT	1170 TTTTG	GAG,	AGC	1450 3CTGAC	
9	O GAG	CGT	1260 TCAGG	22	14 366T	
3GAG	1070 4GCTG/	.TG/		1350 GTAG1	) (1)	
970 AGGA(	<b>4</b> 66	1160 (CCTC	AGG,	1.	1440 )TCCAG	1510 1520 1530 AATGGTTTTCAGTAAAAAAAAAAAAA
9 ACA(	000	ATA.	1250 CATC/	8	14 CTC	AA AA
1766	1060 CCAG	CAC	100	1340 36666	· 25	1530 VAAAA
960 AAGCA	1331	1150 CTGT	CAGO	1666	SS CACI	AAA
AGA	o GCT:	ITA	1240 GAGG	991	1430 CCCCA(	O W
၁၁	1050 AGAGC	AC	- 55	1330	ZZ ZA	1520 TAAA
950 GCCTG	ည္ဟ	1140 3TGCT/	, AGA	55	1420 CCGAGA	CAC
36 S	STCA	1	1230 TTGGG/	TAG	14. SCC	111
CCT(	1040 TGGG	AGC	CTT	1320 4AAAT	1 <u>G</u>	1510 TGCT1
Ą	10	113 SC 23	ర్	13 A	AG	₹
		-				

FIG.9C

				40		60
MSNTRF	TITLNYKDPL	TGDEETLASY	G I VSGDL I CL	I LHOO I PPPN	IPSSTDSEHSS	SLQN
	70	80	an	100	110	120
NEOPSI	ATSSNOTSIO	DEOPSDSEQG	DAAOSGVWND	DSMLGPSQNFI	EAESIQDNAHN	AAFG
TIEGI OL	/// SS/NG/151Q	DE QUI DE OLI QU	d, trideo riii is	boined out in		
	130	140	150	160	170	180
<b>TGFYPS</b>					MLESGY I PQG1	EAK
		•				
					230	
ALSLPE	KWKLSGVYKL	QYMHHLCEGS	SATLTCVPLG	NL I VVNA I LK	INNE IRSVKRL	.QLL
	250	260	270	280	290	300
PESEIC					290 PNVFGLVVLPL	
1 251 10	KEKEOEHVAN	THOUGHESIN	LI NOQL VIII L	en manene	02 * * 2. 1	
	310	320	330	340	350	360
LRIFRL					VQDTDWKELYF	
7.00450					410	
IOKKES	PKGRF VLLLP	22 IHI IPF YP	NPLHPRPFP5	SKLPPGTIGG	EYDQRPTLPY\	/GDP
	430	440	450	460	470	480
ISSLIP					FRPSRGRPTDO	
100211	o. out.					
FM						
-						

FIG.10A

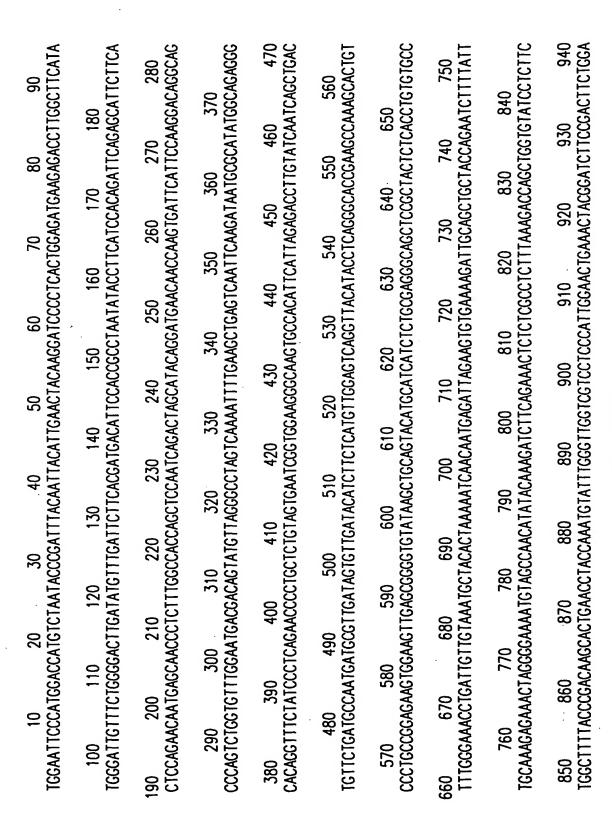


FIG. 10B

950 960 970 980 990 1000 1010 1020 1030	1040 1050 1060 1070 1080 1090 1100 1110 1120	30 1140 1150 1160 1170 1180 1190 1200 1210 1220	1230 1240 1250 1260 1270 1280 1290 1300 1310	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410	1430 1440 1450 1460 1470 1480 1490 1500	1510 1520 1530 1540 1550 1560 1570 1580 1590	00 1610 1620 1630 1640 1650 1660 1670 1680 1690	1700 1710 1720 1730 1740 1750 1760
TGTTCGTTCCGTCTTGTCTGCGTTTGTCGTCGTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTTATATCTGCGTGAT	TTTCGAGACAATACTGTCGAGGTTCGAAAGAAGAACTGTACGGAAGGAGGACATACAAAGAAAG	TTGTGCTGCTCCTGCCATCGACCCACCATTCCATTCTATCCCAACCCCTTGCACCCTAGGCCATTTCCTAGCTCCCGCCTTCCTCCAGG	AATTATCGGGGGGAATATGACCAAAGACCAACTTCCTATGTTGGAGACCCAATCAGTTCATTCCTGGTCCTGGGGGAGGCCCAGC	CAGTTACCTCCACTGAGACCACCTTTGATCCAGTTGCCCACTTCTAACCCCATGTTGCCAGGGGGGGG	CAGGGTCGCCCAACTGATGCCCTGTCATTCATTTGTAATTTCATTTCTGGAGCTCCATTTGTTTT	TGTTTCTAAACTACAGATGTCCCTTGGGGTGCTGATCTTGATTGTGTGTTGAGAGTTGCACTCCCAGAAACCTTTT	AAGAGATACATTTATAGCCCTAGGGGTGGTATGACCAAAGGTTCCTGTGACAAGGTTGGCCTTGGGAATAGTTGGCTGCCAATCTCCCTGC	TCTTGGTTCTCCTCTAGATTGATTTCTTGATGCTGTTCTTACCAGATTAAAAAAAA
.0	1060 107	150 1160	1250	1340 1350	IO 1440	1530 154	620	1720
TTGTCTGCGGTTTGTC	GAGTTCAAGACACAGA	GTCAACCCACACCATT	GACCAAAGACCAACAC	CACCCTTTGATCCAGT	IGGETCGCCCAACTGAT	TCACTCCTTGGGGTGC	CTAGGGGTGGTATGAC	1GAAGTTTGTTTCTG
950	1040 1050	1130 1140 1	1230 1240	1320 1330	1420 1430	1510 1520	1600 1610 1	1700 1710
1611CCTTCCTTGTCT	TTTCGAGACAATACTGTCA	TTGTGCTGCTCCTGCCATC	AATTATCGGGGGTGAATAT	CAGTTACCTCCACTGAGAC	TTCCCTTTAGACCCAGCAGGGG	TGTTTCTAAACTACAGATG	AAGAGATACATTTATAGCC	TCTTGGTTCTCCTCTAGA1

FIG. 10C

	10	20	30	40	50	60
ETSKLG+S	SAVLAPAAGO	STLSSEGRSAV	/SGILIAVTS	TGVDK+SLNQ	LLHGLGTSSRI	LSHF
PFG*KSPP	70 PRGQFVAAA\	80 /EIAGRSGLQN		100 NQQLQQEGYSI	110 EQGYLTREQSI	120 RRMA
	30 IHRKQVQGG1	140 DIYHLLKARK		160 LEMLPPELSF	170 TILSYLNATDI	180 LCLA
	90 NDELLWQGL		210 YNKNPPLGF		230 EGSLTFNANPI	240 DEGV
_	250 LDDSPKE I A	260 AKF IFCTRTLN	270 WKKLRIYLD	280 ERRDVLDDLV	290 TLHNFRNQFLI	300 PNAL
_	310 IAPEERGEYL	320 ETLITKFSHF	330 RFCACNPDLMF	340 RELGLSPDAV	350 YVLCYSLILLS	360 SIDL
_	370 KMSKREFIRN	380 ITRRAAQNISE	390 DFVGHLYDN		410 KAQLLGLQFLI	420 LQTK
	30 GGYISAGHO	440 CSLSTQSSFSV	450 /QPFFLLPFS	460 ILVISLGN+I	470 ILQNFS*FCLS	480 SRFA
	190 ISC*RMIN*H	500 YYTLKDGVFVH	510 H*ICLKNFIHF	520 FHSLYKYHVM	530 CTYLTKE IYSI	540 HNYF
_	550 /FPFLSN+VL	560 .KF[*F*SET]		580 RQKPIPASFSI	590 FKL±RVLICY	600 YITM
-	i10 YKFII≠FFI		630 •VL+TI+DF+1	• • •	650 E*NKIXLELW	•

FIG.11A

10 20 30 40 50 60 70 80 90 GGAAACGTCAAAATIGGATGCTCGCAGTTCTGAGTTCTGAGTTCTGGTATTCTGGTATTCTC	100 110 120 130 140 150 160 170 180 ATCCCCTCCCCTCCCCTCTCCCACTTCCATCACCTTCTCCATCCCCTCCCCCC	90 200 210 220 230 240 250 260 270 280 CCTAAAAGTCCCCCCCCCCCAGGCTTCTCGCCCCCCCCCAGGCTTGTGCAGGGTTGTGGAGGTT	290 300 310 320 330 340 350 360 370 GGTCAGAAACCAGCAGCTGCAAAGCTACAGTGAGCAAGCGTACCTCACCAGAGAGCAGAGCAGGAGAATGGCTGCGAGCAACATTTCT	380 390 400 410 420 430 440 450 460 470 AACACCAATCATCGTAAACAAGGAGGCATTGACATATATCATCTTTTGAAGGAAG	480 490 500 510 520 530 540 550 560 TGGAAATGTTGCCTCCTGAGCTTTACCATCTTGTCCTACCTGAATGCAACTGACCTTTGCTTGGCTTGTGTTTGGCAGGACCTTGC	570 580 590 600 610 620 630 640 650 GAATGATGAACTTCTCTGGCAAGGGTTGTGGGGTCACTGTTCCATATACAATAGAACCCACCTTTAGGATTTTCTTTTAGA	60 670 680 690 700 710 720 730 740 750 AAAKTGTATATGCAGCTGGATGAGGCAGCCTTTAATGCCAACCCAGATGAGGGAGTGAACTATTATGTCCAAGGGTATCCTGGATG	760 770 780 790 800 810 820 830 840 ATTCCCCAAAGGAAATTTCTTTCTTTTTTTTTTTTTTTT	850 860 870 880 890 900 910 920 930 940 GCATGACCTTGTAACATTGTAGAAATCAGTTCTTGCCAAATGCACGAGAGAGA	FIG.11B
10	100	190 200	290	380 33	480	570	660 670	760	850 8	
GGAAACGTCAAA	ATCCCCCTCACC	GCTAAAAGTCCC	GGTCAGAAACCA	AACACCAATCAT	TGGAAATGTTGC	GAATGATGAACT	AAAKTGTATATG	ATTCCCCAAAGG	GGATGACCTTGT	

950 960 970 980 990 1000 1010 1020 1030	1040 1050 1060 1070 1080 1090 1100 1110 1120	30 1140 1150 1160 1170 1180 1190 1200 1210 1220	1230 1240 1250 1260 1270 1280 1290 1300 1310	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410	1420 1430 1440 1450 1460 1470 1480 1490 1500	1510 . 1520 1530 1540 1550 1560 1570 1580 1590	00 1610 1620 1630 1640 1650 1660 1670 1680 1690
GGAGAGTATCTTGAAACTCTTATAACAAAGTTCTCACATAGATTCTGTGCTTGCAACCCTGATTTAATGCGAGAACTTGGCCTTAGTCCTGATG	CTGTCTATGTACTGTGCTACTTTGTTTTCCATTGACCTCACTAGCCCTCATGTGAAAATGTCAAAAAGGGAATTTATTCG	AAATACCCGTCCCCTCAAAATATTAGTGAAGATTTTGTAGGCCATCTTTATGACAATATCTACCTTATTGCCCATGTGCCTGCTGCATAAAAA	GCACAATTGCTAGGACTTCAGTTTTTACTTCAGACTAAGCTACCAAGGACTTAGCAGATATGGGGGTTACATCAGTGCTGGTCATTGTAGCC	TGAGTATACAATCAAGCTTCAGTGCGAACCTTTTTTTTTT	TTTTCCTAATTTTGTTATCACCAAAGCAGGCCACTGTCTAACAGCTGTTAACGAATGATAAACTGACATTATACTCTAAAA	GATGGTGTATTTGTGCATTAGATTTGCCTGAAAAACTTTATCCATTCTTTATACAAATACCATGTAATGTGTATATTAACTAAAG	AGATTIATAGTCATAATTATTGTAAAGATTTTAACTAAAGTTTTTCCTTTTCTCTCAAACTGAGTTCTGAAATTTATTT
970 980 990	SO 1070 1080 109	1160 1170 1180	1250 1260 1270 1	1350 1360 1370	1440 1450 1460	30 1540 1550 156	1630 1640 1650
ACAAAGTTCTCACATAGATTCTGTGCTTGCA	IGATTCTACTTTCCATTGACCTCACTAGCCC	ATTAGTGAAGATTTTGTAGGGCATCTTTAT	TTTTACTTCAGACTAAGCTACCCAAGGACTTA	IGCAACCTTTTTTCTTTIGCCATTTTCTAT	TTTGCACAAAGCAGCCACTGTCTAACAC	IGCCTGAAAACTTTATCCATTCCATTCTT	ITGTAAAGATTTTAACTAAAGTTTTTCCTTT
950 960	1040 1050 1060	1130 1140 1150	1230 1240	1320 1330 1340	1420 1430	1510 1520 1530	1600 1610 1620
GGAGAGTATCTTGAAACTCTTATA	CTGTCTATGTACTGTGCTACTCTTTGA	AAATACCCGTCCCCTCCAAAA	GCACAATTGCTAGGACTTCAGTTT	TGAGTATACAATCAAGCTTCAGTG1	TTTTCCTAATTTTGTTTATCACG	GATGCTGTATTGTGCATTAGATTTGC	AGATTTATAGTCATAATTATTTA

FIG. 11C

1780	ACAGTGTTGATTTGT
1770	VAACTTTGAAG
1760	NAACTATTGTCTYCGTAAAAGTTAGATCTGACTTCAGRCAGAAACCAATACCAGCTTCCTTTTCCTTTAAACTTTGAAG
1750	FACCAGCTTC
1740	CAGAAACCAA
1730	ICACTTCACR
1720	VAGTTAGATC
1710	CTYCCTAN
1700	TGAAACTATTC

FIG.11D

10	20	30	40	50	60				
MAAAAVDSAME	EVVPALAEEAAF	PEVAGLSCLV	NLPGEVLEYI	LCCGSLTAAD	IGRVSSTCR				
70	80	90	100	110	120				
RLRELCQSSGKVWKEQFRVRWPSLMKHYSPTDYVNWLEEYKVRQKAGLEARKIVASFSKR									
130	140	150	160	170	180				
FFSEHVPCNGF	SDIENLEGPE	IFFEDELVCI	LNMEGRKALT	WKYYAKKILY	YLRQQKILN				
190	200	210	220	230	240				
NLKAFLQQPDI	DYESYLEGAVY	IDQYCNPLSD	ISLKDIQAQI	DSIVELVCKT	LRGINSRHP				
250	260	270		290	300				
SLAFKAGESSM	MIMETELQSQVI	_DAMNYVLYD		YYNALNLYMH	IQVL I RRTG I				
310	320	330	340	350	360				
PISMSLLYLT	I ARQLGVPLEP	VNFPSHFLLR	WCQGAEGATL	DIFDYIYIDA	FGKGKQLTV				
370	380	390	400	410	420				
KECEYL IGQHV	/TAALYGV/NVI	KKVLQRMVGN	LLSLGKREGI	DQSYQLLRDS	SLDLYLAMYP				
430	440	450	460	470	480				
DQVQLLLLQAF	RLYFHLG IWPER	KVLDILQHIQ	TLDPGQHGAV	GYLVQHTLEH	HERKKEEVG				
490 VEVKLRSDEKI	500 HRDVCYSIGLIN				540 IVHSLPHGHH				
550	560	570	580	590	600				
QPFYNVLVEDO	GSCRYAAQENLE	EYNVEPQE I SI	HPDVGRYFSE	FTGTHYIPNA	ELE IRYPED				
610 LEFVYETVQN	620 IYSAKKENIDE								

FIG.12A

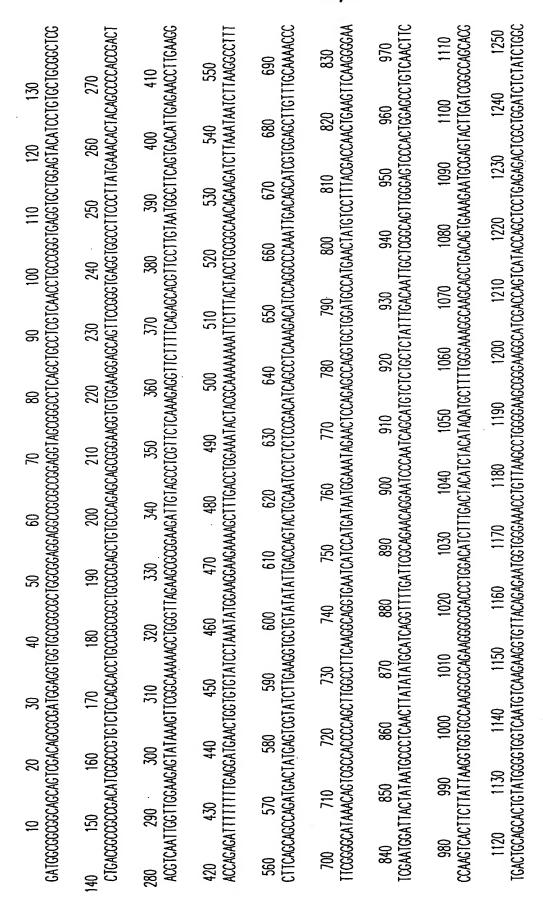


FIG.12B

A TO TACCOGGACCAGGIGCACCTICICCICC TCCAAGCCAGGCTTTACTICCACCIGGGAATCTGGCCAGAAGGIGCTTGACATCCTCCAGCACCATCCAAACCCTAGACCCTAGACCCGGGCAGCAGCAGGGGGGTGGGCTAC

1310 1320 1330

<u>%</u>

1440 1450 1460 1470 1480 1490 1500 1510 1520	O 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660	70 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1780 1800	310 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940	1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070 2080	2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2220	2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2340 2350 2350 2350 2350 2350 2350 2360 CCTCAGAACATTICCTTAGACATTICCAGATAGATTICCTTCTAGATTAGAT	2500	2550 2560 2570 2580 2590 2600 2610 2620 2630 2640
AGGTGGGCGTAGAGGTGAGGTGCGCTGCGATGAGAGGATGTCTGCTACTCCGTCGGGCTTATGAAGAGGTATGGCTATA	ACTGTGTGTGTGTGCGCGCCCCCCCCCACCATGGACGATCGGAACATGAACGTCCACAGCCTGCCGCCCACCCA	AGCCCAAGAAAACTTGGAATATAACGTGGAAAATCTCACACCTGAGGTGGGAGGTTTCTCAGAGTTTACTGGCACTACATCCCAAAGGCGGAGGCTGGAGATCCAGAAGATCTGGAG	TITGTCTATGAAACGCTGCAGAAATATTTACAGTGCAAAAAAAA	GACCCTGGGACCTGCTGCACCAGGAAGCCACTCCACTAGTTGCTTGC	AAGCCACTGTGTCAGTGGCCTGTGTGTGTGTGTGTGTGTG		TTTAAATTTA	AGTITATGCACATCTCTATAAATCATTACTTTTTATTACATAAAATTCTTTTAGAAAATGCAAATAGTGAACTTTGTGAATGGAATTTTTT
1520 TAAGAGGTA	1660 36CTCCTGT(	1800 ATCCAGAAGA]	D 19 AAGAAGACC	70 CTAGTGAA	2210 CCCTGTCTG	2350 TAGTTGCAT	2490 ITTTTTT	2630 TTCTCAAT0
1510	1650	1790	1930	2070	0	2340	2480	2620
ATGAAGCA	TGCAGGACC	SATCCGGTA	SACTCCCGAA	CCCTACACT	TCCATTCC	ACCCTGAAGTT	STGTTTTATC	ACTGAACT
1500	1640	1780	1920	2060	2200	23	0	2610
GGCTCATT/	ACCTCCTCC	GAGCTGGA	GAGAACGG	176C7C7C	GTATTCACTC	11111ACO	ITTCAAGT	VAAATGCAAAT
1490	1630	1770	1910	2050	2190	2330	2470	) 26
STACTCCATCO	CCTTTCTATAA	CAAACGCA	TCTTCCAM	AGACAATG	CATTCTTI	:TGTGTGTCT	AACACAGATT	TTTAGAAA
) 14	20	760	1900	2040	2180	2320	2460	2600
IGICTGCIA	SACCAGCCT	ACTACATCO	CTGCTGCTA	SAGCTGCAA	ICCTGTAA1	4GTGAGGAC	4ATATGTGA	TAAAATTCTI
1480	1620	0	1890	2030	2170	2310	2450	2590
CACAGAGATG	ACGCCACCAC	TGCCACTCACTA	ACCTTTGCTG(	IGCTCTTCCC	CAGTCGACGC	CGGTCCCG	TTTTTCT,	TTATTACA
1470	1610	1750	18	0	2160	2300	2440	2580
ATGAGAAG	CCTGCCGCA	GAGTTTACTG	CATTGCAC	ACCCTGTG	SAGGTCTCACA	3GAACCTGTT	GAATTTAT	TTTCTATT
1460 TGCCCTCCG	1600 CTCCACAG	1740 ATTTCTCA	1880 AGAGAGGA(	2020 ICTTTAAATAC	21 21 21 CATGAG	90 2 7 7 7 7	2430 AGAATCATTI	2570 VATCATTAGT
1450 4GGTGAAGCT	1590 AACATGAAC	1730 1666ACGCT	1870 STAAAGTCT	2010 ICCTACTAA	2150 CATTCTGTCT	2290 TTCTGATTTCT	) 24 36TAATTAG	50 STCTATAA
1440 TGGCCGTAGA	1580 :TGCATCCGG,	1720 CCCTGACG	1860 ATAGATGA(	2000 TGGTTGCC	2140 GTTTGTGA	2280 TAATTTCCT	2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2460 2470 2480 2490 2480 2490 2490 2480 2490 2490 2490 2480 2480 2480 2490 2480 2480 2480 2480 2480 2480 2480 248	ATGCACATCTC
)	10	1710	1850	1990	2130	2270	2410	2550
AGGAGGTG	ACACGAGT	AAATCTCACA	AAAGAGAAC	ACTACTCC	;TGGTGACA	ATTTGCAA	SACATTAAC	7TGAGTTTA
1400 1410 1420 1430	1570	0	1840	980	2120	2260	2400	2510 2520 2530 2540 AATGGGAATATAACACAGTTTTCCCTTCCATATTCCTCTTG
CTGGTGCAGCACACTGAGCAAAAAGGAGG	CATGATGGGAQ	CCTCAAGAA	\CAGTGCAAAGA	CACTCCACC	CTTGTCCT(	GGGTTATG	GACATGCAC	
1420	1560	1700	18	'0	2100 2110 2120	2250 2260	2390	2530
CATTGAGC	CCCACCTGC	ACGTGGAGCC1	IATTTACA	'AGGAAAGCCACT	GTCAGTGGCATGCCTTGTATGCTTGT	IGCCIGGACAGATGGGGTTA	CACCATCTTA	CCTTCCAT
1410 :TCTAGAGCA	1550 36CTGGGA(	1690 TGGAATATA	1830 SCTCCAGAAT	1970 IGCTGCACCAGG	) 21 3TGGCATGC	2240 2 TTCCTTGGCTC	2380 :TATCTTGGC/	2520 :ACAGTTTT
1400	1540	1680	1820	1960	2100	22,	0	2510
CAGCACAC	IGTGATCTACO	VAGAAAACT	TATGAAACC	TCCCCACC TO	CTGTGTCAC	SAACATTT	1GTGTGCT/	GGAATATAAC
CTGGTG	1530	1670	1810	1950	2090	2230	2370	25
	ACTGTG	AGCCCA	TTTCTC	GACCC	AAGGCACT	GTCTCAG	TAAAGTTG	AATGGG

FIG. 12C

FIG. 12D

10 20 30 40 50 60

RSTGFRRAGEEWSR\*XLAASPGXLRRPAXTFVLSNLAEVVERVLTFLPAKALLRVACVCR

70 80 90

LWRECVRRVLRTHRSVTWISAGLAEAGHLXGH

## FIG.13A

CCGTAGTACTGGNTTCCGGCGGGCTGGTGAGGAATGGAGCCGGTAGNTGCTTGCGGCGAG TCCCGGGNTCCTCCGTAGACCCGCGGANACCTTCGTGTTGAGTAACCTGGCGGAGGTGGT GGAGCGTGTGCTCACCTTCCTGCCCGCCAAGGCGTTGCTGCGGGTGGCCTGCGTGTGCCG CTTATGGAGGGAGTGTGTGCGCAGAGTATTGCGGACCCATCGGAGCGTAACCTGGATCTC CGCAGGCCTGGCGGAGGCCGCCACCTGGNGGGGCATT

FIG.13B

## 37/87

			0.70.			
RPRPVQQQ			30 PPPPQQQQQQQF	40 PPPPPPPPPLP	50 Qernnvg	60
ERDDDV	70 PADMVAEESO				110 GASTSTTENFO	
	130	140	150	160	170	180
RARVSG	KSQDLSAAP <i>A</i>	NEQYLQEKLPO	DEVVLKIFSY	LLEQDLCRAA	CVCKRFSELAN	NDPNL
WKRLYM	190 EVFEYTRPMM	MH				
•		F	FIG.14	A		
	10	20	30	40	50	60
GCGGCC	GCGCCCGGTG	CAGCAACAGC	CAGCAGCAGC	CCCCGCAGCA	cccccccccc	CAGCC
GCCCCA	70 GCAGCAGCCG	80 CCCCAGCAGC	90 CAGCCTCCGC	100 CGCCGCCGCA(	110 GCAGCAGCAG(	120 CAGCA
GCAGCC	130 TCCGCCGCCG				170 GCGGAACAACO	
CGAGCG	190 GGATGATGAT	200 GTGCCTGCAG	210 SATATGGTTG	220 CAGAAGAATCA	230 AGGTCCTGGT(	240 SCACA
AAATAG	250 TCCATACCAA	260 ACTTCGTAGAA	270 NAAACTCTTT	280 TGCCGAAAAGA	290 AACAGCGTGT(	300 CCAC
AAAGAA					350 IGGTCATCGTO	
ACGTGC					410 IGCTGAACAG	
TCAGGA					470 CTTGCTGGAAO	
TCTTTG	490 TAGAGCAGCT	500 TGTGTATGTA	510 NAACGCTTCAG	520 GTGAACTTGC	530 FAATGATCCC	540 \ATTT
CTCCAA	550 acgattatat	560	570	580	590 SATGCAT	

10	20	30	40	50	60
RPRPGLRGGRA	PCEVTMEAGGU	PLELWRMIL	AYLHLPDLGRO	CSLVCRAWYE	LILSLDSTR
70 WRQLCLGCTEC	80 RHPNWPNQPD\				
130	140	150	160	170	VGQGKLG
RERRTLSVGPG	REFDSLGSAL <i>I</i>	AMASLYDRIV	LFPGVYEEQGE	ETTLKVPVET	
		FIG.	15A		
10	20	30	40	50	60
GCGGCCGCGGC	CCCGGACTCCG	CGGTGGGCGA	GCGCCCTGTG	AGGTGACCAT	GGAGGCTGG
70	80	90	100	110	120
TGGCCTCCCCT	TGGAGCTGTG	GCGCATGATC	TTAGCCTACT	TGCACCTTCC	CGACCTGGG
130	140	150	160	170	180
CCGCTGCAGCC	CTGGTATGCAG	GGCCTGGTAT	GAACTGATCC	TCAGTCTCGA	CAGCACCCG
190	200	210	220	230	240
CTGGCGGCAGC	CTGTGTCTGGG	TTGCACCGAG	TGCCGCCATC	CCAATTGGCC	CAACCAGCC
250	260	270	280	290	300
AGATGTGGAGO	CCTGAGTCTTG	GAGAGAAGCC	TTCAAGCAGC	ATTACCTTGC	ATCCAAGAC
310 ATGGACCAAGA	320 ATGCCTTGGA				
370 GAGGGAACGAC	380 GTACCCTGAG				
430 CTTGGCCATGG			460 GTGCTCTTCC		
490 AGGTGAAATCA	500 TCTTGAAGGT0				GGGTGA

FIG.15B

1	0	20	30	40	50	60
ETETAPLTL	ESLPTDPLI	LLILSFLDYR	DL INCCYVSR	RLSQLSSHDP	LWRRHCKKYWL	_IS
. 7	0	80	90	100	110	120
•	•				SVLGWVLSLKE	SCS
CCCITAINA	Omnoer 10	. 100101110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
. 13	iO	140	150	160	170	180
	-	-			IVLKIC+TSI	
NONFINCOS	INDIINNOI LI	וונאוכטוועט	MOGNE VOSIIO	INCAMICETI	14501041310	41-1
19	Λ .	200	210	220	230	240
	-				RVFKYGIKMCS	
EIPAEIGIE	1 F 2 L INL C	IHIGESQIIA	VE AAEG *INNIN	E VF TUCQT VE	.KALKIGIVMC:	טעכ
05	^					
25						
CINGMH*VF	5					

FIG.16A

	10	20	30	40	50	60
GAGACC	GAGACGG	CGCCGCTGACC	CTAGAGTCG	CTGCCCACCGA	TCCCCTGCT	CCTCATC
	70	80	90	100	110	120
TTATCC	TTTTTGG	ACTATCGGGAT	CTAATCAAC	IGTIGTTATGT	CAGTCGAAGA	ATTAAGC
	130	140	150	160	170	180
CAGCTA	TCAAGTC	ATGATCCGCTG	TGGAGAAGA	CATTGCAAAAA	ATACTGGCT(	GATATCT
	100	000		220	070	240
GAGGAA	190 GAGAAAI	200 CACAGAAGAAT	ZTU CAGTGTTGG/	ZZU AAATCTCTCTT	ZSU CATAGATAC	240 TACTCT
071007171		• .				
0 4 TOT 4	250	260	270	280	290	300
GAIGIA	GGAAGAT	ACATTGACCAT	TAIGUIGUI	ATTAAAAAGGC	CICGGGAAIG	SAICICA
	310	320	330	340	350	360
AGAAAT	ATTTGGA	GCCCAGGTGTC	CTCGGATGG	STTTTATCTCT	GAAAGAGGG(	STGCTCG
	370	380	390	400	410	420
AGAGGA	AGACCTC	GATGCTGTGGA	AGCGCAGAT	TGGGCTGCAAG	TTTCCTGGA	CGATTAT
	470	440	450	460	470	490
CGATGT	TCATACC	440 GAATTCACAAT	450 GACAGAAG	40U TTAGTTGGTTC	470 CTGGGGTTA	460 AAQQQTI
CCATCC		500				
UCA I GG	CACIGIC	TAATCACTATO	G11C1GAAGA	ATTIGITAGAC	o ICGA I ACAC	)C16666
	550	560	570	580	590	600
GAGATT	CCAGCAG	AGACAGGGACT	GAAATACTG	ICTCCCTTTAA	CTTTTGCATA	ACATACT
	610	620	630	640	650	660
GGTTTG		ACATAGCAGTG				
	670	680	600	. 700	710	
TACCAA	TGTCAGA	CAGTAGAACGT	GTGTTTAAAT	700 [ATGGCATTAA(	710 GATGTGTTC1	720 IGATGGT
			,			<b></b>
		740 IGCATTAGGTA				
COLMIN	ヘベノいいしん	IUCALIAUUIA	LLLICAG			

FIG.16B

10 20 30 40 50 60
GSGFRAGGWPLTMPGKHQHFQEPEVGCCGKYFLFGFNIVFWVLGALFLAIGLWAWGEKGV
70 80 90 100 110 120
LSNISALTDLGGLDPVWLVCGSWRRHVGAGLCWAAIGALRENTFLLKFFXXFLGLIFFLE
LA

## FIG.17A

GGCTCCGGTTTCCGGGCCGGCGGGTGGCCGCTCACCATGCCCGGNAAGCACCAGCATTTC CAGGAACCTGAGGTCGGCTGCTGCGGGAAATACTTCCTGTTTGGCTTCAACATTGTCTTC TGGGTGCTGGGAGCCCTGTTCCTGGCTATCGGCCTCTGGGCCTGGGGTGAGAAGGGCGTT GGTAGTTGGAGGCGTCATGTCGGTGCTGGGCTTTGCTGGGCTGCAATTGGGGCCCTCCGG GAGAACACCTTCCTGCTCAAGTTTTTCTNCGNGTTCCTCGGTCTCATCTTCTTCCTGGAG **CTGGCAAC** 

FIG.17B

	10	20	30	40	50	60
AAAAAA	<b>YLDELPEPLL</b>	LRVLAALPAA	ELVQACRLVC	LRWKELVDGA	PLWLLKCQQEC	LVP
	70	80	90	100	110	120
FGGVFFF				WCDVFHGGDG	WRVEELPGDS0	VFF
LOOTELL			00220220			,
	130	140	150	160	170	180
THUESIN					WYSGRSDAGCL	
HULDY	WII WOOLEN	CIVINAGAIDEG	ALGINELLLD	IIQIAIVIO	II I JUNJUAUUL	
	190	200	210	220	230	240
TAMALOS						
IVKLLSt	HENVLAEFS	SGQVAVPQDS	DGGGWME ISH	IF IDYGPGVR	FVRFEHGGQGS	WYV
		•				
	250					
KGWFGAF	RVTNSSVWVE	P*				

FIG.18A

GCGGCGCCGCCGCGTACCTGGACGAGCTGCCCGAGCCGCTGCTGCTGCGCGTGCTGCCGCACTG CCGGCCGCCGAGCTGGTGCAGGCCTGCCGCCTGGTGTGCCTGCGCTGGAAGGAGCTGGTGGACGGCGCC 210 220 230 240 250 260 270 CACTGGCAGCAGTTCTACTTCCTGAGCAAGCGGCGCGCCAACCTTCTGCGTAACCCGTGTGGGGAAGAG GÄČŤTGGAAGGČŤĞGTGTGACĞŤĞGAGCATGĞŤĞGGGACGGČŤĞGAGGGTGĞAĞGAGCTGCČŤĞGAGAC AGTGGGGTGGAGTTCACCCACGATGAGAGCGTCAAGAAGTACTTCGCCTCCTCTTTGAGTGGTGTCGC AAAGCACAGGTCATTGACCTGCAGGCTGAGGGCTACTGGGAGGAGCTGCTGGACACGACTCAGCCGGCC ATCGTGGTGAAGGACTGGTACTCGGGCCGCAGCGACGCTGGTTGCCTCTACGAGCTCACCGTTAAGCTA CTGTCCGAGCACGAGAACGTGCTGGCTGAGTTCAGCAGCGGGCAGGTGGCAGTGCCCCAAGACAGTGAC GGCGGGGCTGGATGGAGATCTCCCACACCTTCACCGACTACGGGCCGGGCGTCCGCTTCGTCCGCTTC GAGCACGGGGGCAGGGCTCCGTCTACTGGAAGGGCTGGTTCGGGGCCCGGGTGACCAACAGCAGCGTG TGGGTAGAACCCTGA

FIG.18B

1	0	20	30	40	50	60
MGEKAVPLL	RRRRVKRS	SCPSCGSELG	VEEKRGKGNP	ISIQLFPPEL	VEHIISFLPVI	RDLV
7	0	80	90	100	110	120
ALGQTCRYF	HEVCDGEO	SWRR I CRRL	SPRLQDQDTK	GLYFQAFGGR	RRCLSKSVAP	LLAH
13	0	140	150	160	170	180
GYRRFLPTK	DHVF ILDY	<b>YVGTLFFLKN</b>	ALVSTLGQMQI	WKRACRYVVL	CRGAKDFASDI	PRCD
19	0	200	210	220	230	240
TVYRKYLYV	LATREPQE	VVGTTSSRA	CDCVEVYLQS	SGQRVFKMTF	HHSMTFKQIV	LVGQ
25	0	260	270	280	290	300
ETQRALLLL	TEEGKIYS	SLVVNETQLD	QPRSYTVQLAI	LRKVSHYLPH	LRVACMTSNQ	SSTL
31	0					
YVTDPILCS	WLQPPWPC	G				

FIG.19A

ATGGGCG	10 AGAAGGCGG	20 STCCCTTTGC	30 TAAGGAGGA	40 AGGCGGGTGA	50 AAGAGAAGC	60 GCCCTTCT	IGTGGCTCG
70 GAGCTTG	80 GGGTTGAAG	90 SAGAAGAGGG	100 GGAAAGGAA	110 AATCCGATT	120 CCCATCCAG	130 TTGTTCCCC	) CCAGAGCTG
		160 CATTCCTCC					
210 CACGAAG	220 TGTGCGATG	230 GGGAAGGCG	240 TGTGGAGAC	250 CGCATCTGTO	) 26 CGCAGACTCA	SO 2 AGTCCGCGCC	270 CTCCAAGAT
		300 TGTATTTCC					
350 CCCTTGC		370 GCTACCGCC					
		44 TCAAAAATG					
490 CGCTATG		0 5 GTCGTGGAG					
56 AAATACC		70 TGGCCACTO					
6. GACTGTG	30 TTGAGGTCT	640 ATCTGCAGT	650 CTAGTGGGC	660 CAGCGGGTC1	670 TCAAGATG <i>A</i>	680 CATTCCACC	690 ACTCAATG
		710 TGCTGGTTG					SAGGAAGGA
760 AAGATCT		780 TAGTGAATG					
		850 ACTACCTGC					
		920 CTATTCTGT					

FIG.19B

				50 RTRPREEAEGO	
			100 RREGARPGRV	110 QGQGGQVWAY	120 IPGT
			160 LLHMCSYLDMI	170 RALGRLAQVYF	180 RWLW
	90 RRQIAWASI			230 EGILLKWRCSO	240 QMPW
_			280 AGHDEDVCHF	290 VLATSHIVSAO	300 GGDG
			340 RDRTAKVWPLA	350 ASGQLGQCLY1	360 FIQT
			400 GQLMTHLDRDI	410 FPPRAGVLDVI	420 IYES
			460 LYCLQTDGNHI	470 LLATGSSFYS\	480 /VRL
	90 PHTFPLTS		520 SYNLHVLDIO		

FIG.20A

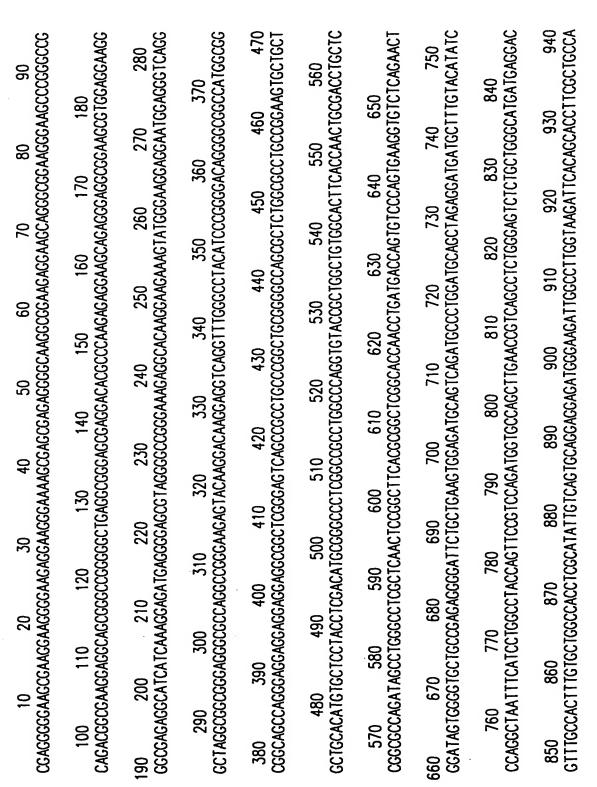


FIG. 20B

ည	111	TTC	900	1410 CCACA	၁၁
1030	3CTCT	1220	10	1	1500
GTGTG(		AGACTT	GACTG(	TTGCC,	CGCCA(
CCAAGO	1120 ACTCA(	3 SACAG	1310 ACTGGGA(	1400 CACTTGC	10000
1020	CCATT	1210	1300	1	1490
GACGG		ACTTGG/	GTTCGCT	AACCA	CGACC
GACAG	1110 TCAGG	0 GACAC	13 TATGT	1390 AGATGGC	GACGT
1010	TGCTA	1200	1290	1	1480
CCAGG		CTGATGA	TGACACC	GACAG	CCCCCT
TGGCT	1100 TCTGT	0 GGCAG	12 SCTATG	1380 GCCTGCA	ACCT TC
1000	)	1190	1280	TACTG	1470
ATCAT1	ATCTGG	ACAGTGG	CCTGTGG		CCCACA
970 980 990 1000 1010 1020 1030 AGGTGAACTGTGGAAGGGGGCATCATATCATTTGGCTCCAGGGACGGCCCAAGGTGTGGCC	1040 1050 1060 1070 1080 1090 1100 1110 1120 TTTGGCCTCAGGCCAGCTGGGTGTTTATACACCATCCAGACTGAAGACCAAATCTGGTCTGTTGCTATCAGGCCATTACTCAGCTCTTTT	30 1140 1150 1160 1170 1180 1190 1200 1210 1220 GTGACAGGGACGCTTGTTGTGGCCACTTCTCAAAAATCTGGGACCTCAACAGTGGGCAGCTGATGACACACTTGGACAGAGAGTTTC	1230 1240 1250 1260 1270 1280 1290 1300 1310 CCCCAAGGGCTGGGGTGCTGTGATATGAGTGCCTTTGCCTTTGCCTGTGCTGCTGCCG	1340 1350 1360 1370 1380 1390 1400 1410 ICATGGAGTGGGAGGGCCCCACAACAGCACCCTGTACTGCCTGC	),1600
/29999	0	1180	1270	CAGCA	1460
066	TGAAG	:TGGGACCT	GCACTG		AGGGCC
CAAAG	1080 CCAGACT	1170 IGAAAATC	11106	1360 CACAA	ACCAA
980	O	11	1260	AGCCC	1450
GATTG(	CCATC	CCTGA	GTCCCC		CCGGCA
,	1070	1160	1	1350	)
GTGTG	ATACACC	TCTCACC	ATGAG	GGAGG	TGGGA
970	30	11	1250	GAGTG	1440
GAACT	3TGTTT	ACTTC	TCATAT		366CTG1
)	1060	150	GATG	1340	)
3GAGG1	3GCAGT(	3.TGGG		STCATO	TTGTA(
960	50	1150	1240	AATGT(	1430
SAACAGG	AGCTG(	TTGTTGTG	GTGCT(		TAGCGTT
950 960	1050	140	CTGGG(	1320 1330 1	1420 1430
AGTACTGGCCTCATGAACAGG	AGGCCAGC	ACGCC		SACCAGTGTCCGGAAATGTGT	GGTTCCTCCTTCTATAGCGT1
950 CTGGCCT	1040 TGCCCTC	CAGGG	1230 AAGGG	AGTGT	1420 CCTCCTTC
AGTA	10 111G	1130 1140 GTGACAGGGACGCT	222	1320 CACCA(	6611
		-			

FIG.20C

10	20 RHGYCTLGEAF1	30	40	50	TSI SCAVOR
בובוסיבנו עו	(I O I C I LOCAL I	אערהנים	DIMITIALAN	LLULIANOUL	. I SL SG Y AQA
70	80	90	100	110	120
NYFNILDKIV	QKVLDDHHNPRL	IKDLLQDLS	STLCILIRGV	GKSVLVGNIN	IIWICRLETI
130	140	150	160	170	180
LAWQQQLQDL	OMTKOVNNGLTI	SDLPLHMLN	NILYRFSDGW	DIITLGQVTP	TLYMLSEDR
190	200	210	220	230	240
	FAEKQFCRHL I I				
250	260	270			
FWKDSGHPCT/	AADPDSCFTPVS	SPQHFIDLFK	F		

FIG.21A

0 60
CAAAATAAAAACAAATTGTC
20 130 ATTCTTTTTGGCTAATTGAC
190 200
GGGAGAAGCCTTTAATCGGT
260 270 CAAACTGTTGCAGCTAATTG
CAAACIGIIGCAGCIAAIIG
330 340 CAACATTTTGGATAAAATCG
CAACATTTIGGATAAAATCG
400 410 TCTGCAAGACCTAAGCTCTA
470 480 CATCAATATTTGGATTTGCC
540 550 GACTAAGCAAGTGAACAATG
610 620 CCGGTTCTCAGACGGATGGG
680 690 AGACAGACAGCTGTGGAAGA
O 750 CCTTTCAGAAAAAGGTCATA
,
10
880 890 CCCTGCACGCGGCCGACC
880 890 CCCCTGCACGGCGGCCGACC 950 960

FIG.21B

970	980	990	1000	1010	1020	1030
TGCCATCCC	TATTGGAGAT	TGTGAATCCT	GCTGTCTGT	GCAGGGCTCA	TAGTGAGTGT	TCTGTGAGGTG
1040	1050	1000	1070	1080	1090	1100
1040		1060	1070			1100
GG 1GGAGAC	ICC ICGGAAG	CCCCIGCIIC	CAGAAAGCC	IGGGAAGAAC	IGCCCT TC TGC	CAAAGGGGGGA
4440	4400	4470	4440	4450	4400	4470
1110	1120	1130	1140	1150	1160	1170
CTGCATGGT	TGCATTTTCA	TCACTGAAAG	TCAGAGGCC	aaggaaatca`	TTTCTACTTC	TTTAAAAACTC
1180	1190	1200	1210			
CTTCTAAGC	TAAAATTATA	GTGAAATTTT	GCGTACTCT	CTC		

FIG.21C

10 YGSEGKGSSSIS	20 SSDVSSSTDHTP			
70 NGRGSSTSSSSI	80 TGETVAMVHSPF			
130 LPTNQLCRCARV	140 CRRWYNLAWDPF			
190 ETVTVSGCRRLT			230 OVVSLCPNLEH	
250 SKVTCISLTREA	260 ASIKLSPLHGKQ			
310 VRLTDEGLRYLV	320 /IYCASIKELSV			
370 RYVAKYCSKLRY	380 'LNARGCEG I TDH			
430 NLKRLSLKSCES	440 STTGQGLQTVAAI			
AFF	·			

FIG.22A

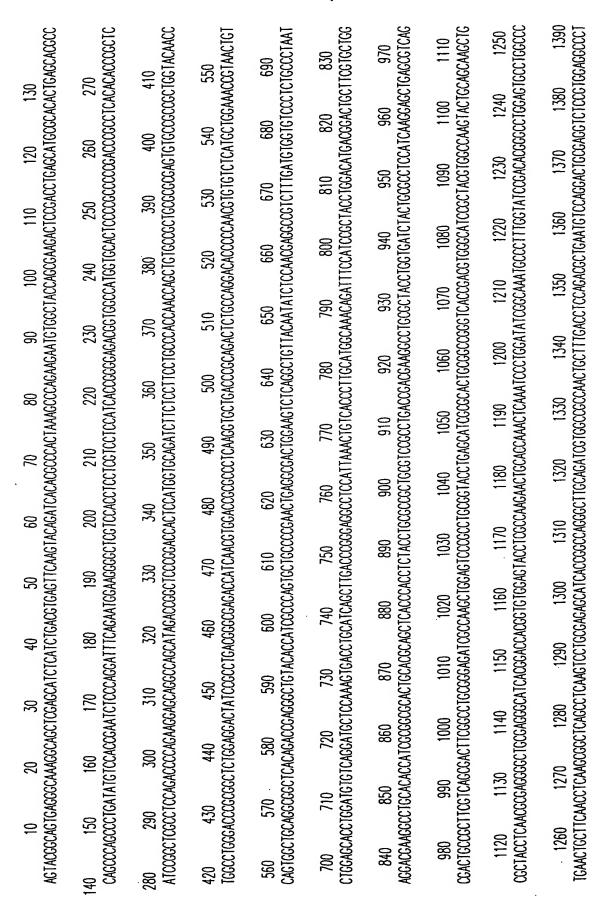


FIG.22B

ATGTAA	STCAGG	CACAG	CACCCA	) SACCTT	20 4GAGCA	2360 TTCAGTG	2500 ACCCCA	2640 36CATG	2780 TAAGTT
1520 GCAGCGT,	1580 1590 1600 1610 1620 1630 1640 1650 1660 ATTAGGAATCTGGCCTTTATTTTTCCTCATTTCTCATGGCCAACAGGCCAAAGAAACGAAGCAAGACAAAACAAAACAAAACAAAAAA	70 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1780 1800 1800 10 1770 1780 1790 1800 10 10 10 10 10	1860 1870 1880 1890 1900 1910 1920 1930 1940 AGCAGCGAGGATCCATCAGAATCACAGTGCTCTCCAGACCTCTTTAAACTGCTTCATTGACCTAAGTCACTCTTTCAATCCCACACCCA	2080 TGACTATO	22: TTGGCAT	2.	O ACAGCAA	30 CACACCT	770 TTGGGGT
)	50	1790	1930	2070	2210	2350	2490	26	2
ITTAAAA(	4AACAGG	ACACAGGO	STCTCTTC	:TGTCAA	VAGCACC	SACTTCCC	CCTAATCAC	2600 TIG	AAGCCTA
1510	16.	1	)	30	2200	2340	2480	2620	2760
AAATTTTT	AAACAGC	CCTCCCA(	VAGTCAC	CCAGCT(	CATACACAG	AAATCACC	CAGCACA	SATCCCT	TCACATG
1500	1640	1780	1920	206	22	)	70	S10	2750
ACAAAGCA	CAACACA	CCTTTC	TTGACCTAA	3TCCTCCC	VTACCCAT	GCTGCA	SAGGCACO	ITTTCT(	SACTTCA
30	530	1770	1910	2050	2190	2330	2470	26	)
AACCTGA/	AAACGAA(	:CAAGGCCG	ICCTTCA1	ACATGCA(	AGCAGAGA	STCCTTTGG	TCCTAGCGAG	TCAAAG	ACATCCA(
1490	16	,000000	)0	340	2180	2320	2460	2600	274
FCACACAAAC	SCCAAAGA		ICTAAAC1	3GCAAGG/	ITCAGGG/	CCTGTATO	CACACCA	CATGTCC	ICTTTAT,
1480	1620	1760	1900	20	)	10	2450	2590	2730
3TTGTAT	AACAGAGG	CCCTCACC	)CTCCTCTCT	ACAGCTG	IATAGCA1	AAAGGGT(	rccccctc	3GGAACA(	ATTTATT
1470	1610	1750	1890	2030	2170	2310	24	)	20
TCATCCGCC	2ATGGGC/	STCTCCT(	TCCAGAC	CAGCAAA	IGTCCAT1	\CTOCATAAA	IGCATTC(	GCCCAA(	STCATCT/
1,	)	40	1880	2020	2160	2300	2440	258(	2720
AGAGTTCA	SATTTCT(	SCCTTA(	ACAGTGCT(	ATTCATT/	AGCTTCA1	AGCATC	FACTTTCI	3.AAGCAA(	ACCTCTTCTCA
1460	160(	1740	18	)	30	2290	2430	2570	2710
AAGGGACA	TTTCCT(	SAGCAAGGC	16AATCA(	ITAAAAA	AAAGATT/	3TGCAGTGC	ACACAAA	TAATTAA(	3CATTTG
1450	1590	1730	1870	201(	21;	2:	O	60	700
ITCTTCTG	CCTTTAT	STTCCTT	CATCATCA	36CCTTT	ACAGCCC,	AGATTGT(	TCTCTGT,	CAATTTT	TCAGATT
0	80	1720	1860	2000	2140	2280	2420	25	2
CCGCCTT	AATCTGG	:TGATCGCT	GAGGATCO	CTTTTCA(	AGGCCACA	TTTCAGG/	CCTGTCGT(	6CCCTTG	TTGTCAT
1440	150	1	SAGCAGC	90	130	2270	2410	2550	2690
CACCAACCC	TATTAGG	SCAGGCT(		CAAAATA(	SAATCAGA	;CATGTGA	GCTGGAT(	AGTAAAG	CGCTTCT
1430	1570	1710	1850	199	2	)	DO	540	2680
TCGAGCA	3CAAGGT	TACTTAAG	CCTAGAGG	SCATAGG	CAGCACTO	3TGGATG	TTGCCAGO	AAATAGG	GATGCCT
20	560	1700	110 1820 1830 1840 1850	1980	2120	2260	2400	2	O
TGCGTCA	TCTTCCG	AAACATG	TICCACGCCCCCCAAGGCCACACCCTCCCTAGAGC	3CACTTT0	CAGCTTC	TGATTCTGT	TCCTCTTTT	Jettite	AGAGACA
1420	1	0	30	970	2110	2250	2390	2530	267
CAAGCGCTGC	AGCTCTT	TCTCACA	SCACACC	FACCATAC	IGGCTG(	3GAGAAC	CCTCACA	TACTCAG	AGCTGGC
1410	. 1550	1690	1830	19	)	2240	2380	2520	2660
CCCACTG	TCAAAC,	TTCTCTTC	CCAAGGCCA	VACTCAA	ACTGCTC	ACCTCTTCCA	STCCCACCT	116C111	STCCTAC
1400 TCTCAAAC	1540 CACCCAC	1680 TAGGCAG	1820	1960 ICTIGTC/	2100 SCACTTC	22, ATCGACC	2. TTCCTCT	CCATCAG	50 CACATCT
1400 1410 1420 1430 1440 1450 1460 1470 1480 1480 1500 1510 1520 CCCCTTIGICAAACCCCACTGCACAAACCTGCAAAATTTTTAAAAGCAGCGTATGTAAA	30 1540 1550 1560 1570 CCACCGACACTCAAAACAGCTCTTTCTTCCGGGAAGGTT	70 TCATTTG	1810 TTCCACC	1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2050 2060 2000 2000 2000 2070 2080 TGGACATTCTIGICAACTCAATACCATAGCCAAAAAAAAAA	2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2210 2220 GCCCAAAGCACTICACTGCTGTGGGGCTGCAGCAGGAGGCCAAAGATTAGCTTCATGTTATAGCATTGAGGGAGG	2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2330 2340 2350 2350 2360 2360 CCAGGCATCGACCTTCCAGGAAATCACCATTCCTTTCCAAATCACCACTTCCTTTCAGTGTTTCCAGAATCACCACTTCCTTTCAGTGTTTCAGTGTTTTTCAGTGTTTTTCAGTGTTTTTCAGTGTTTTTCAGTGTTTTTCAGTGTTTTTCAGTGTTTTTCAGTGTTTTTCAGTGTTTTTTTT	2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2460 2470 2480 2490 2500 6GAGAATTICCTCTCCCCACCCTCCTCCCACCACCACCACCACCACCAAAGCCAAAGCCCA	2510 2520 2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640 6410 2620 2630 2640 2640 2610 2620 2630 2640	2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2750 2750 2760 2770 2780 2780 2780 2780 2780 2780 278
	1530 CC	16	-		_	_	_		

2790 2800 2810 2820 2830 2840 2850 2860 2870 2880 2880 2900 2910 CALLARITOTICAL CACCIONATION CALLARITOTICAL CACCIONAL CALLARITOTICAL CACCIONAL CALLAR	2920 2930 2940 2950 2960 2970 2980 2990 3000 3010 3020 3030 3040 3050 3050 CACCTORANTIACAACTICAACTITAAATGAACTICAAATTATTIGGATAGAAGTATATTICTAAATGAACTICAAATTATTAAATGAAATTATTAAAATGAAATTATTAAAATGAAAATTATT	3060 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190 3190 ATTICCATGAGAGAGAGAGAGAGAGAGAGAGAGAAATICCATTICAGAAATTICAGAAATTICAGAAATICAGAAATICAGAAAAAAAAAA	3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 ATTATTICITCICAAAATGCCCATTATCCAAAATGCCAAAATGCCAAAACTGCAAAGCTGCAAAGCAAAGCAAAGCAAAGCAAAGCAAAGCAAAGCAAAGCAAAGCAAAGAAAAAA	3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3470 TGTGGGGGATGGGGGATGAGGTTAGTGAGGTGGGGGGGG	3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3610 TIAGCTAGGCCAGGATCTAGTGAAAGCCACAGAAGCATTTAAAACCAGAATTGAAAAGCCAGAATTGAAAAGCAAAAGGATTTGAAAAAGCAAAAGGATTTGAAAAAGCAAAAGGATTTGAAAAAAAA	3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3750 3750 3750 100000000000000000000000000000000000	3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3880 3890 3890 CCACATACCCICTIGCCAGITICTICTICCCAGICTICCCAGICTICATICATICAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4030 ACTAGGAAATITATCTGTTTTAAAACATTGCTTCCTGCGTGCTGCTTGCTAAATTGAATGTTGTTGTTGTTGTTGTTTTTAATTCTAATGTTCAAATCACTGCGTGCTGTATGAATCTAGAAAGCCTTAATTTA
--	---	--	--	--	--	---	--	---

FIG.22D

FIG

	10	20	30	40	50	60
AAAPAPA	PAPTPTPEE	GPDAGWGDRI	PLEILVQIFG	LLVAADGPMP	FLGRAARVCR	RWQE
AACODAL	70	80	90	100	110	120
AASQPAL	MHI A I F 225	LVGRPAKGGV	KAEKKLLASL	EWLMPINK SC	LQRLTLIHWK	.SUVIT
	130	140	150	160	170	180
PVLKLVG	ECCPRLTFL	KLSGCHGVTA	DALVMLAKAC	CQLHSLDLQH	ISMVESTAVVS	FLEE
	190	200	210	220	230	240
AGSRMRK	LWLTYSSQT	TAILGALLGS	CCPQLQVLEV	STGINRNSIP	LQLPVEALQK	GCPQ
	250	260	270	280		
		GRGVAPGPGF				

FIG.23A

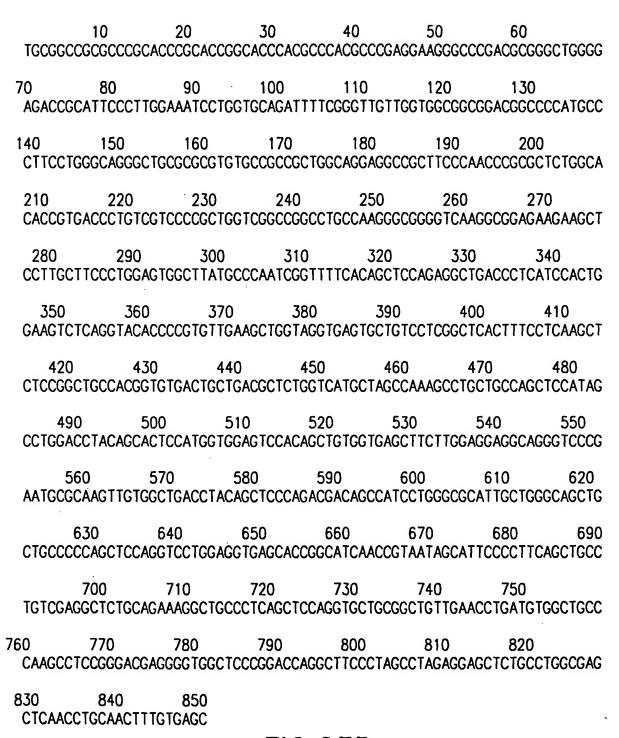


FIG.23B

10 QHCSQKDTAELLR	20 GLSLWNHAEEF				
70 FSYLNPQELCRCS	80 GQVSMKWSQLTK				
130 NRKDESRAFHEWD	140 EDADIDESEES	150 SAEESIAISIA	160 AQMEKRLLHGL	170 .[HNVLPYVG]	180 SVKTLV
190 LAYSSAVSSKMVR	200 QILELCPNLEH				
250 TDVALEKISRALG	260 ILTSHQSGFLK				
310 EE I DNEHPWTKPV	320 SSENFTSPYW				
370 TSGCFSKDIVGLR	380 TSVCWQQHCAS				
430 RLPRGKDLIYFGS	440 EKSDQETGRVL				
490 LTITGAGLQDLVS	500 ACPSLNDEYFY				
550 DLCLLHLAEQAFF	560 HALYS+HISCV				•

FIG.24A

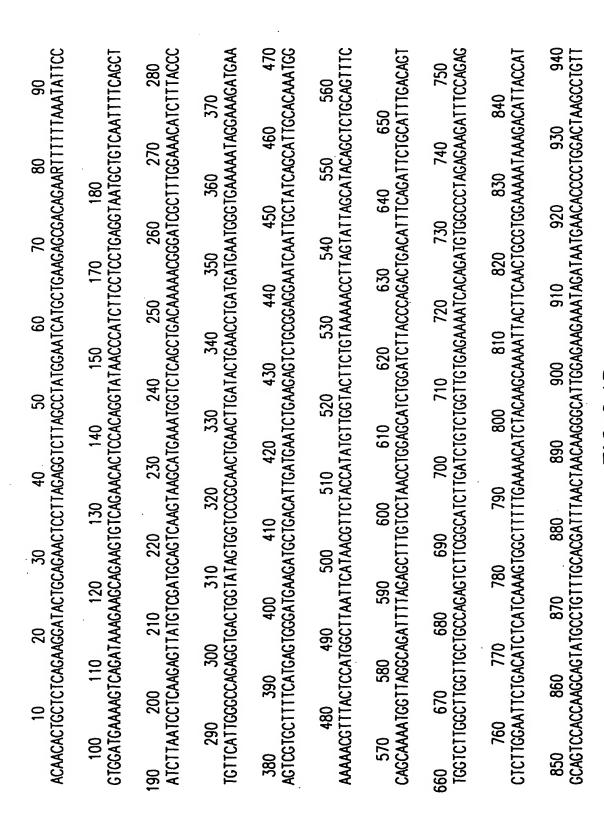


FIG.24B

950 960 970 980 1000 1000 1010 1020 1030  TCTICTGAGAATTTCACTTCTCTTATGTGTGCATGTTAGATGTTGCAGATTGTGGAATGCAGAATGAGAATG  1040 1050 1060 1070 1080 1100 1110 1120  TTGAAACTCTTTGTGTATGGAACACACTTTAGTTGTTCCACCTTGTTTTTAGTAAGGACATTGTTGCACTGGTTGTTTTGTAAGGACATTGTTGCACTGTTTTTGTTAGTAAGGACATTGTTGCACTGTTTTTTTT	970 980 990 ICCTTATGTGGGATGTTAGATGCTGAAGATTTGGC
---	--

FIG.24C

10 RVTSGCGLARGSS	20 SAMVF SNNDEGL	30 .INKKLPKELI	40 LLRIFSFLDIV	50 TLCRCAQISKA	60 AWNILA
70 LDGSNWQRIDLFN	80 IFQIDVEGRVVE				
130 EHLNLNGCTKITD	140 STCYSLSRFCS				
190 DQITKDGIEALVR	200 GCRGLKALLLF	210 RGCTQLEDEAI	220 _KHIQNYCHEL	230 VSLNLQSCSR	240 I TDEGV
250 VQICRGCHRLQAL	260 CLSGCSNLTDA				
310 ELEKMDLEXCILI	320 TDSTL IQLS IF				
370 ELDNCLLITDVAL			400 FRAGIKRMRAQ		
430 TAVAGSGQRLCRO	440 CVIL+QQLPGF	450 PKG**GILSSF	460 RRPESS+PTPP	470 SPNLL I LHWEF	480 RHLQFP
490 NRHLSRFKNGEDK			520 LVLLLPSSLMS		
550 ILKTDQTGPASKY	INCVQ*				

FIG.25A

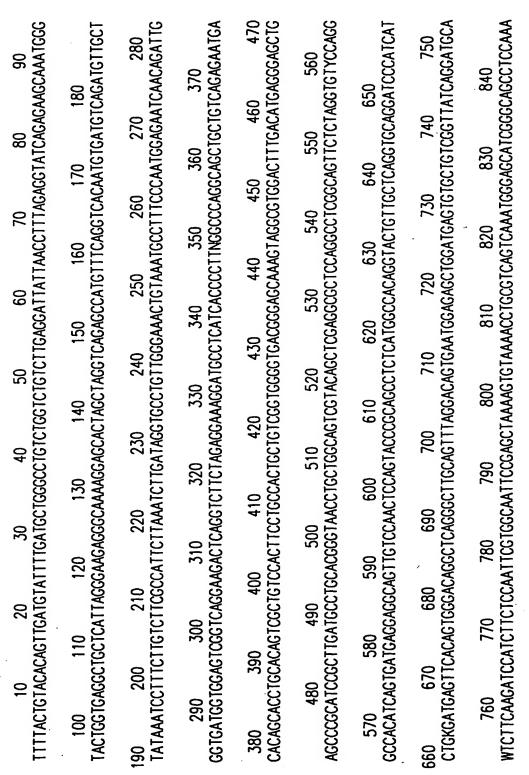


FIG.25B

850 860 870 880 890 900 910 920 930 940	950 960 970 980 990 1000 1010 1020 1030	1040 1050 1060 1070 1080 1090 1100 1110 1120	30 1140 1150 1160 1170 1180 1190 1200 1210 1220	1230 1240 1250 1260 1270 1280 1290 1300 1310	1320 1330 1340 1350 1360 1370 1380 1390 1400 1410	1420 1430 1440 1450 1460 1470 1480 1490 1500	1510 1520 1530 1540 1550 1560 1570 1580 1590	10 1610 1620 1630 1640 1650 1660 1670 1680 1680 1671 1680 1670 1670 1670 1670 1670 1670 1670 167
ATTIGCAGTCGCGGACAGTTCAAACCCAGGGCTGTAAGAGAGGCATCTGTGAGGTTGCTGCAACCCGAAAGGCAGAGACCTGTAGCCGGTGAC	AGCCCCTGCATATCTGCACCACCTTCATCCTGATACGTGAGCTGCAAGTTGAGGCTCACAAGCTCATGGCAGTAATTCTGAATGTG	TTTCAGAGCTTCATCTTCTAACTGTGTGCAGCCCTCAGGAGCATTCAGGCCTTCGACACCTCGCACCAGTGCCTCGATGCCATCCTTC	GTGATCTGATCACACCAAGAGAGGTTCAGGTACTCCAGGTTTCGGCAGCCCTCACTGATCCCCTTCAAGGAGCAGCTGTTTGTAATAGACACACAGG	AGGICAGAWCCAGAIGITTCAGCTIGGAACAGAATCIGCIAAAGGCIATAACACGIGCIGICAGIGATITTIGIGCATCCATIGAGGITCAAATG	FTCAATGTTTCGCCAGGTCTTCAAGGAGGAATCCCCAACACACATGCAGCCTCGCAAGCTGAGCTTCCTCAGGAATCCAACG	CATCGCTTCGAGATATTTCCACCACTCGACCTCTACATTTGAAAAGATCTATTCTTTGCCAGTTGCTTCCATCCA	AGAIGTICCAAGCCTIGGAAATCIGIGCACAICGGCACAAAGTTACTATCCAAGAAGGAAATATTCTTAACAGAAGTTCTTIGGGTAACTT	
850 860	950 960	1040 1050	1130 1140 11	1230 1240	1320 1330	1420 1430	1510 1520	1600 1610 16
ATTGCAGTCGCGGACAGTT	AGCCCTGCATATCTGCACC	TTTCAGAGCTTCATCTTCTA	GTGATCTGATCACACCAAGA	AGGTCAGAWCCAGATGTTTC	TTCAATGTTTCGGCAGTTC1	CATCGCTTCGAGATATTTTC	AGATGTTCCAAGCCTTGGAA	TTGTTAATAAGGCCTTCA

FIG.25C

10 MSPVFPMLTVI	20 _TMFYYICLRRR	30 ARTATRGEMA	40 INTHRAIESNS	50 QTSPLNAEVV	60 QYAKEVVD
70	80	90	100	110	120
FSSHYGSENS	MSYTMWNLAGVP	NVFPSSGDF1	TQTAVFRTYGT	WWDQCPSASLI	PFKRTPPN
130 FQSQDYVELTI	140 EQQVYPTAVHV		160 [RILACSANPY		180 EILWSERP
190 TKVNASQARQR	200 FKPCIKQINFPT	210 NLIRLEVNSS			
250 IDMND IEDDA	260 YAEKDGCGMDSL		280 GEGPNNGYFDK	290 LPYEL IQL ILI	300 NHLTLPDL
310 CRLAQTCKLLS	320 SQHCCDPLQYIH				360 SWTGNRGF
370 ISVAGFSRFLI	380 KVCGSELVRLEL		400 CLEVISEMCPN	410 LQALNLSSCDI	420 KLPPQAFN
430 HIAKLCSLKRI	440 _VLYRTKVEQTA	450 LLSILNFCSE	460 ELQHLSLGSCV	470 MIEDYDVIAS	480 MIGAKCKK
490 LRTLDLWRCKI	500 NITENGIAELAS		520 LGWCPTLQSST		
550 TANRSVCDTD	560 IDELACNCTRLO	0.0	580 /SPASLRKLLE		600 SFCSQIDN
610 RAVLELNASFI	620 PKVF [KKSFTQ			·	

FIG.26A

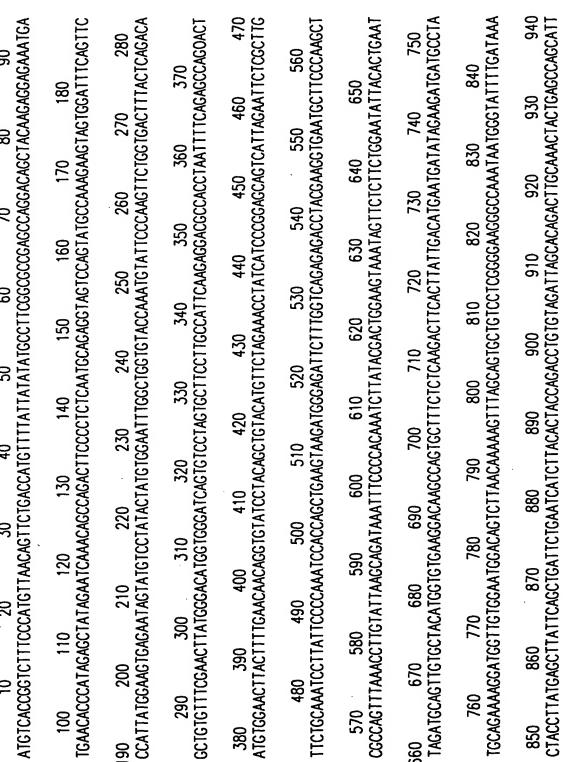


FIG.26B

¥	ဥ	SA S	10 T	E	ള	ဥ	Ħ	
200	220 AAA	GTA	14 TGA	ဥ္ပ	CTC	590 AGC	CTG	
GAT	CTT	AA A	ATG	150 ACT	CAG	AGC	88 CT1	
120 GTG	၁၁၅	13 ACA	0 ATG	AGA.	590 CAC	TAC	17	
111	5 <u>Ş</u>	8	140 3ACT	AGC	, 25 , 25	88	1767	_
AGG	12 ATCI	00 CTA1	3AAC	149( 3AA]	ACT(	400/	6 116/	316/
110 CTG/	SA SA	13(	0 ATT(	ATG	CAC/	167/	17 TAC	CA CA
111	90 GTC	191	139 <sub>1</sub> ATG	AGA	CAC -	70 AAT	CTT	186 TAC
AGG	12 .TGT	0 ACT	010	480 CTG	); [17]	16 \TGT	00 TT	2011
92	YC.	129 VACG	101	1 ATTA	570 30.TG	729.	176 3ATC	GAC
11 ATT	00 TCT	ITA	138( CAG	AAT/	# )S	30 ATT(	AAA	185( AA
AGG,	119 ATT	223	AGG	470 AAG	GCA	16( TGA	101	TA ₹
96 757	G11	128 GCA	_ <u> </u>	1 TGT	09 09 80 80	1Ç <b>A</b>	175 (TCT	<u>₹</u>
10 1GT	CAA	TAT	370 TCAG	, ACA	15 AGA	CAT	%0€	1840 3.TGT
TCT	118 2T7/	O AAG1		460 3TG	216(	16. CAG/	0	¥
17. 17.	116	127 GCC	AGC	101	50 ACT	ACA	174 ACT	_ S
10 100	O MAC	ATT.	360 7TC	95 95	25 SS	O GTG	,AA	1830 AGCTTTC
CAG	117 NTGA	C&C	3AGC	35 133	3160	164 3TG1	TAAC	- Pec
70 AAT/	TI&	126( CAA(	TCA(	36 AC	40 CTG(	101	17.3 CCT	750
55	110	111	350	20	15 TGG	O AGA	CAT	820 GAA
ACT	116 ACT	AGC	110	AAC	CCT	163 'AAT	(33)	MCT 1
95 76	200	1250 21CA	SAAC	MA 14	20 11 11 11	<b>4</b> 6C	172( AGT(	TAG/
100 ATC	200	CACC	340 TTT	161,	15. AGC:	O TAC	GTA	810
111.	115( TCT	TAC	CAT	38 AAG	AGG	162 TCT	ATG	1.00
¥	.TTG	240 AGC	CAG	± 33	90	.CTI	1710 WGA	AGAG
105 105	CAA	1 SATA	55 155	IGGA	152 TAC	ACT	- ACA	888
4GTG	2CT	0101	Sec.	20 3AT/	SCAC	1610 AAA	<b>A</b> GG/	OAT/
55	ACG(	230 TCC	CAG	14; CAT(	0 TGT(	16C	700 ATT,	1790 1800 1810 1820 1830 1840 1850 1860 CCCAGATTGATAACAGAGCTGTGCTAGAACTGCAAGCTTTCCAAAAGTGTTCATAAAAAAGAGCTTTACTCAGTGA
104 TTG	AGT	100	<b>AAA</b>	TAG	151	ACT	CAT	8 3 8 3
5	1130 TT	5	13 SS	႘	CI	1600 AA	3	: 8
	1040 1050 1060 1070 1080 1090 1100 1110 1120 ICTIGICCAGTGGCTTAATTTATCTTGGACTGGCAATAGAGGCTTCATCTCTGTGCAGGATTTAGCAGGTTTCTGAAGGTTTGTGGATCCGAA	1040 1050 1060 1070 1080 1090 1100 1110 1120 TCTTGTCCAGTGGCTTAATTTATCTTGGACTGGCAATAGAGGCTTCATCTGTTGTTGTGCAGGTTTGTGGAGGTTTGTGGATCCGAA 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 TTAGTACGCCTTGAATGTGAAGTTGCTTAATGAAAGTTATTTGTGAGATGTGTCCAAATCTACAGGCCTTAAATC	1040         1050         1070         1080         1090         1110         1120           TCTTGTCCAGTGGCTTGTCTCTCTGTTGCAGGGTTTGTGAAGGTTTGTGGAGGTTTGTGGATGCCAA           1130         1140         1150         1160         1170         1180         1190         1210         1220           TTAGTACCCTTGATTGTAATGAAACTTGCTTAGAAGTTATTTCTGAGATGTGTCCTATCGAAATCTAAAGGCTTTCAAACAAA	1040         1050         1060         1070         1080         1090         1110         1120           TCTIGICCAGTGGCTTAATTTATCTTGCAGTTTATCTGCAGGTTTCTGAAGGTTTGTGCAGGTTTGTGCAAGGTTGTTGTGCAGGGTTTGTGCAGGGTTTGTGCAGGGTTTGTGAGGTTATTGTGAGGTTATTGTGAGGTTAATGAAGGCTTAAATGAAGGTTAATGCAGGTTATTTGTGAGATGTGTGCAAATGTAAAGGCTTAAAGGCTTCAAAAGTAGA         1230         1240         1250         1260         1270         1280         1300         1310           1320         1330         1340         1350         1350         1360         1370         1380         1400         1410           GCAAACAGCTGCTCAGCTTTGCAGCATTTGCAGCATTTAGGCAGTTTTAGGCAGTTTTGAAGACTATGATGATGATGATGATGATGATGATAGATA	1040         1050         1060         1070         1080         1100         1110         1120           TCTIGICCAGICGCTITATITATICATITATICATICATICATICATICATIC	1040   1050   1060   1070   1080   1090   1100   1110   1120   1170   1170   1180   1180   1180   1180   1200   1210   1220   1200   1200   1210   1220   1200   1200   1210   1220   1230   1240   1250   1250   1250   1250   1250   1250   1250   1250   1250   1260   1270   1280   1290   1300   1310   1410   1500   1350   1360   1410   1410   1450   1480   1480   1480   1490   1500	1040   1050   1060   1070   1080   1090   1100   1110   1120   11010   1120   11010   1120   11010   1150   1200   1210   1220   1230   1240   1250   1260   1270   1280   1290   1300   1310   1310   1200   1310   1320   1350   1350   1350   1350   1350   1350   1350   1350   1350   1350   1350   1350   1350   1350   1350   1450   1450   1450   1450   1550   1500   1600   1610   1620   1630   1650	1040 1050 11GECCAGEGCTTAATTT7 1140 1150 1230 1240 1230 1240 1230 1330 130 1420 1430 1420 1430 1420 1430 1610 1520 1510 1520 1610 1620 1700 1710 1700 1710

FIG.26C

10	20	30	40	50	60
MQLVPDIEFKI	TYTRSPDGDGV0	GNSYTEDNDDD	SKMADLLSYFO	XXQLTFQESVL	KLCQPE
70	80	90	100	110	120
LESSQIHISVLF	PMEVLMYIFRW	/VSSDLDLRSL	EQLSLVCRGF)	(ICARDPE IWF	RLACLKV
130	140	150	160	170	180
WGRSCIKLVPY	TSWREMFLERPF	RVRFDGVYISK	TTYIRQGEQSL	.DGFYRAWHQ\	EYYRYI
190	200	210	220	230	240
RFFPDGHVMML	TTPEEPQSIVPF	RLRTRNTRTDA	ILLGHYRLSQD	OTDNQTKVFA\	/ITKKKE
250	260	270	280	290	300
EKPLDYKYRYFF	RRVPVQEADQSF	HVGLQLCSSG	HQRFNKLIWIH	HHSCHITYKS	IGETAVS
310 AFE IDKMYTPLE	320 FARVRSYTAFS	SERPL			

FIG.27A

## 68/87

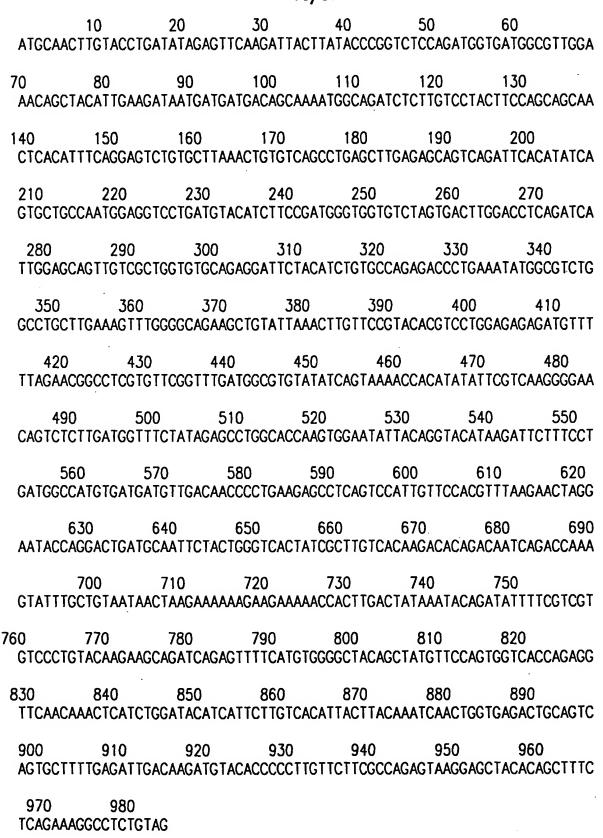


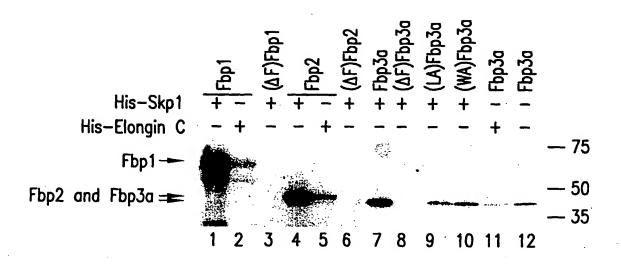
FIG.27B

AALDPDL	10	20	30	40	50	60
	ENDDFFVRK	TGAFHANPYV	LRAFEDFRKF	SEQDDSVERD	IILQCREGELV	LPD
LEKDDMI	70	80	90	100	110	120
	VRR I PAQKK	EVPLSGAPDR	YHPVPFPEPW	TLPPE I QAKF	LCVLERTCPSK	EKS
NSCRILV	130	140	150	160	170	180
	PSYRQKKDD	MLTRKIQSWK	LGTTVPPISF	TPGPCSEADL	KRWEAIREASR	LRH
KKRLMVE	190	200	210	220	230	240
	RLFQKIYGE	NGSKSMSDVS	AEDVQNLRQL	RYEEMQKIKS	QLKEQDQKWQD	DLA
	250 SYTSDLQK					

FIG.28A



FIG.28B



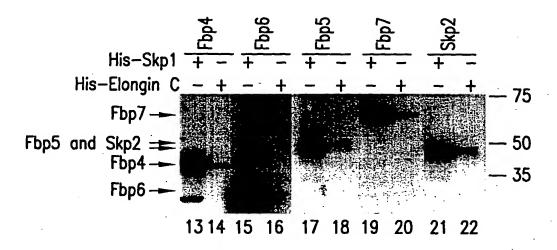
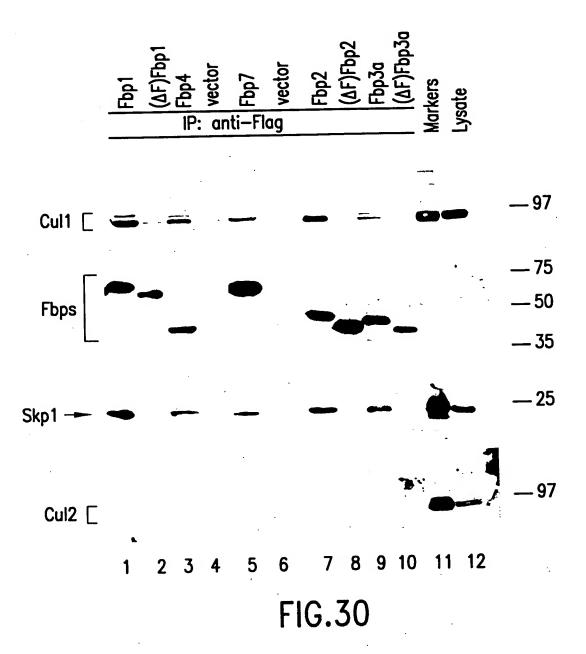
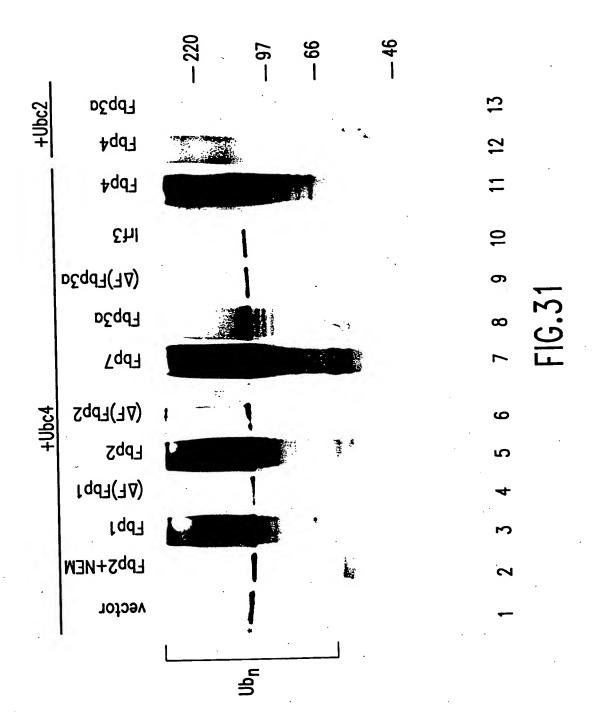
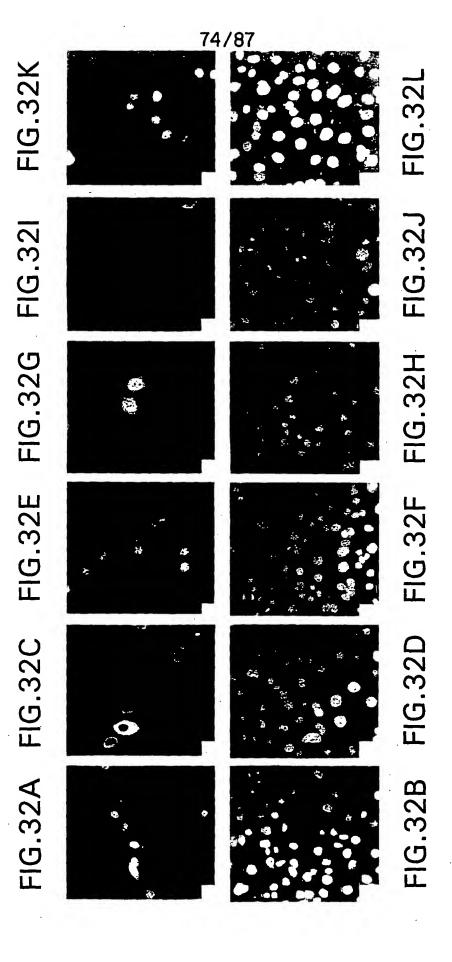


FIG.29







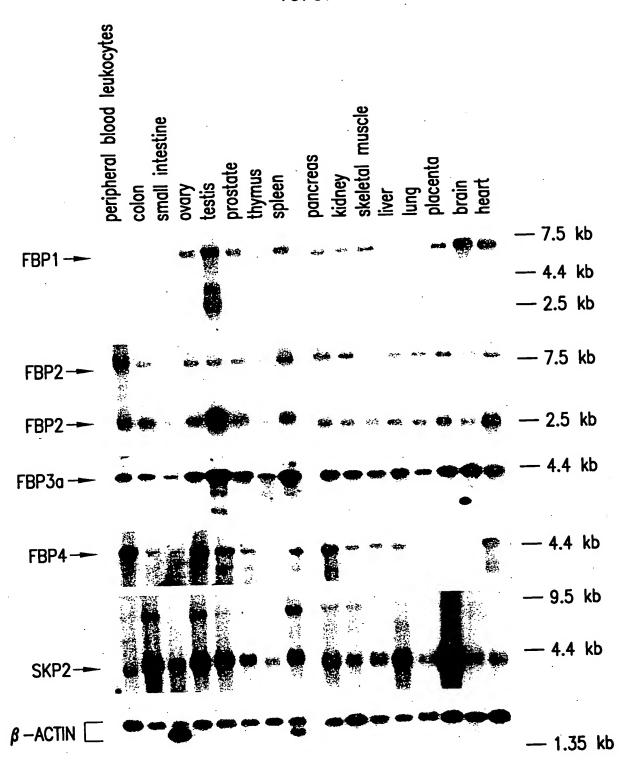


FIG.33

76/87

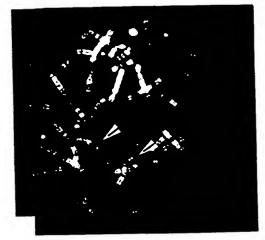


FIG.34A

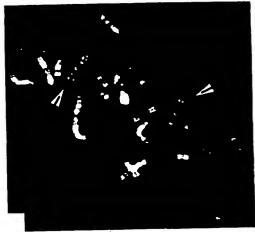


FIG.34B

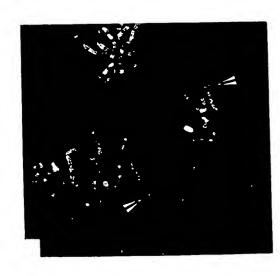


FIG.34C

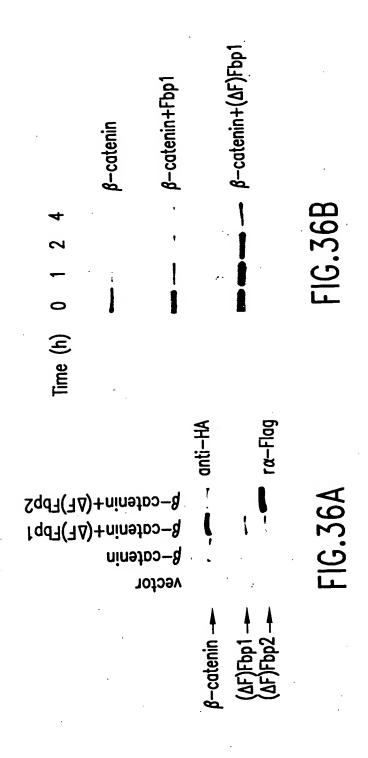


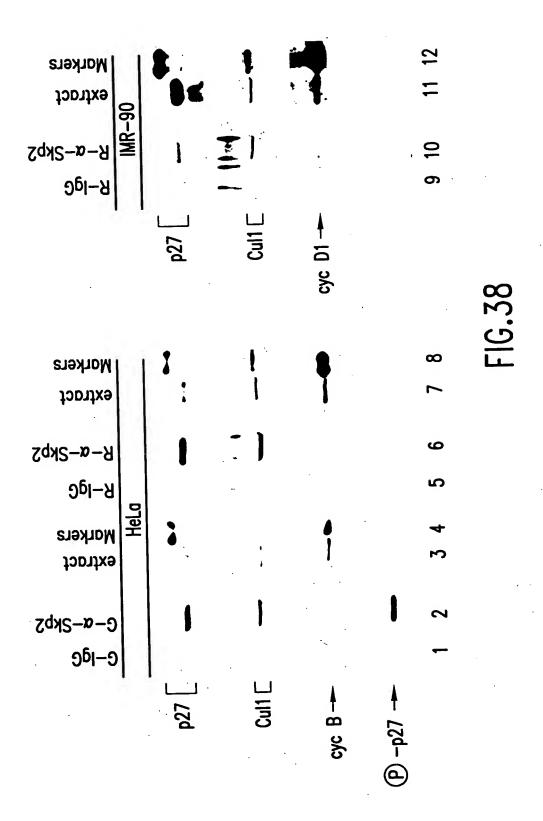
FIG.34D

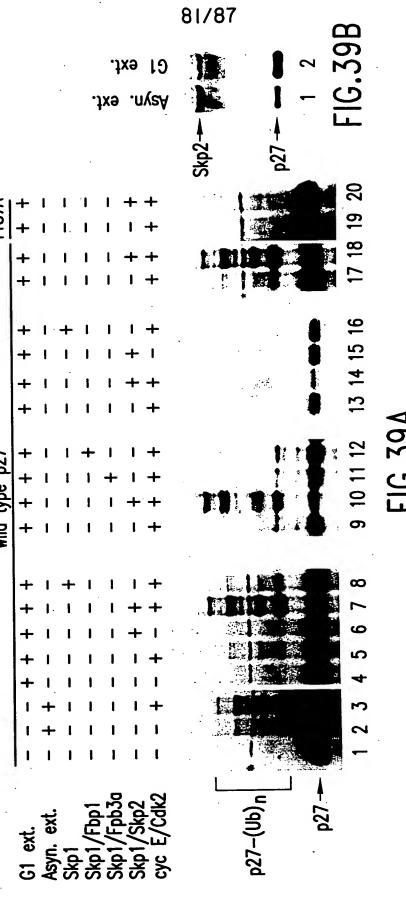


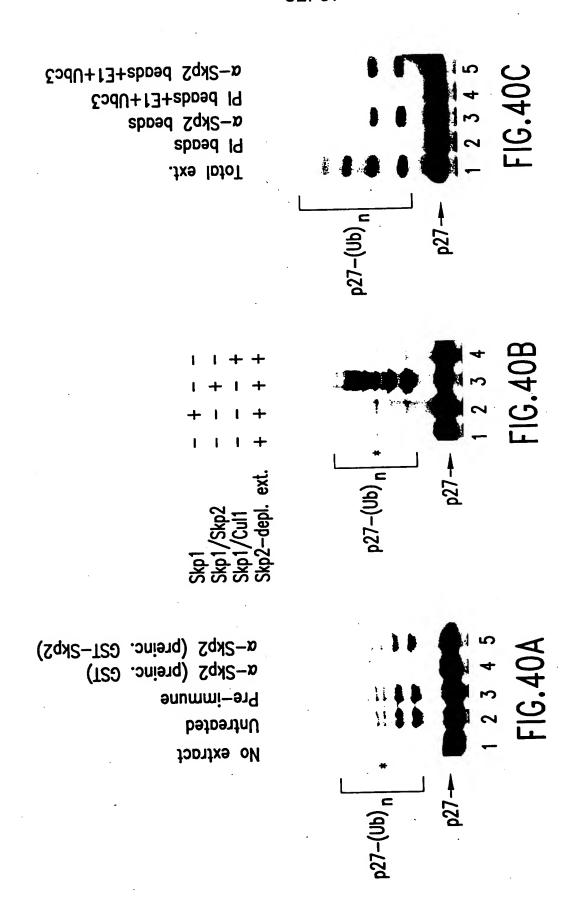


## FIG.35A









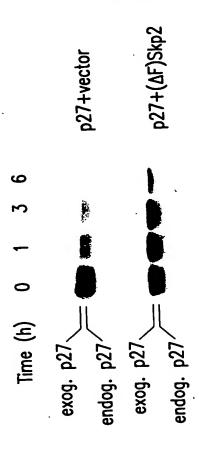
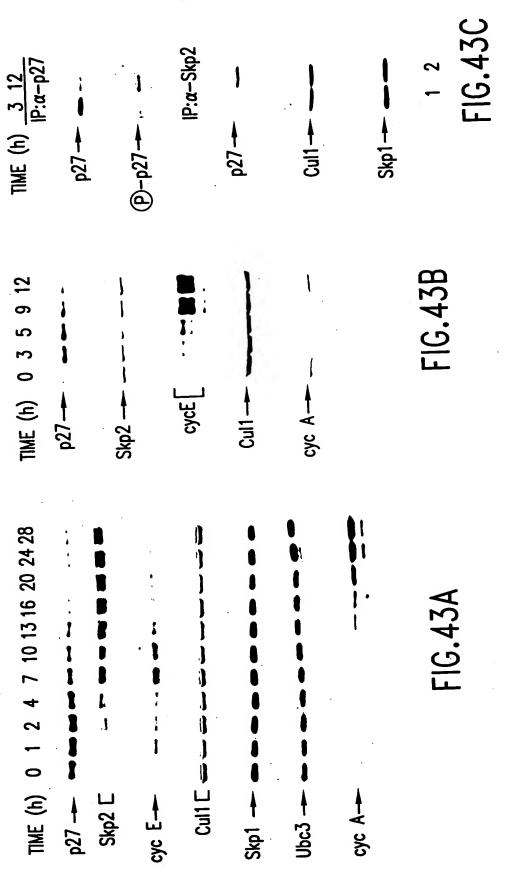
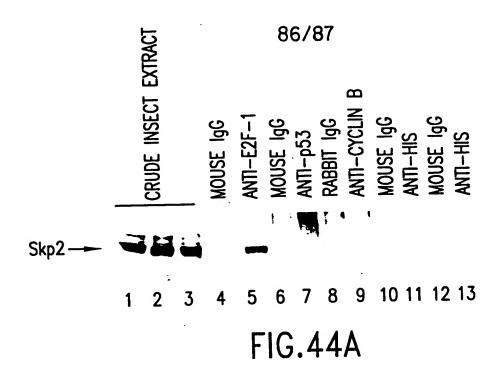


FIG.41B

exog. p27 endog. p27  $(\Delta F)Fbp1 \square$  Untransfected  $(\Delta F)Skp2 \square$   $(\Delta F)Skp2 \square$ 

	TN ZA	, 1	•	1	16	
+Aphidicolin	Сғч ид	1		•	5	
	UNTRANSFECTED				4	
	UNTRANSFECTED	j		1	13	
+Hydroxyurea	TN SA			N.a.	12	
	Cfd NT				=	
	UNTRANSFECTED				9	
	UNTRANSFECTED				တ	FIG.42
	TO SA	<u> </u>		•	œ	$\Xi$
	Cfd CT	1		í	7	
	TN 2A			1	9	
	СГЧ ИТ	i		i ·	5	
	TO SA			1	4	
	Ctrl CT			•	ы	
	TN 2A	i			7	
	Сғч ид				_	
		•		•		
		Skp2		p27		





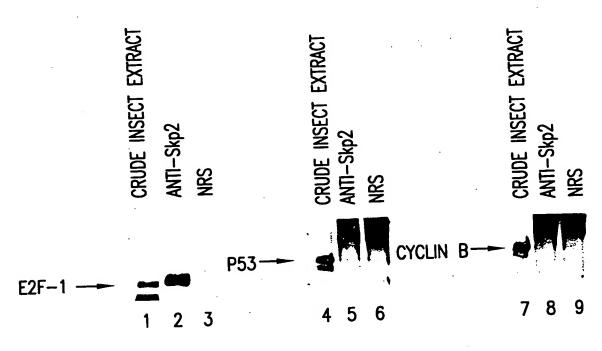


FIG.44B

CRUDE INSECT EXTRACT
ANTI—Skp2
NRS
ANTI—FLAG
RABBIT 1gG

1 2 3 4 5 6 FIG.44C